

REPORTS, RETURNS, AND STATISTICS  
OF THE  
INLAND REVENUES  
OF THE  
DOMINION OF CANADA

FOR THE FISCAL YEAR ENDED MARCH 31

1915

PART III  
ADULTERATION OF FOOD

*PRINTED BY ORDER OF PARLIAMENT*



OTTAWA  
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1915



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# REPORT

## OF THE

# DEPUTY MINISTER OF INLAND REVENUE

To the Honourable P. E. BLONDIN,  
Minister of Inland Revenue.

HONOURABLE SIR,—I have the honour to submit herewith a report of the work performed by the Laboratory of this Department during the fiscal year ending the 31st of March, 1915.

The task of the Laboratory is concerned more especially in the administration of the Adulteration Act, the Fertilizers Act, the Commercial Feeding Stuffs Act, and the Patent Medicines Act. It covers, however, a large amount of general excise work, as well as investigations carried out for other Departments of the Dominion Government.

Details of the work performed will be found in the prefatory letter of the Chief Analyst and also in the various bulletins, twenty-five in number, which are appended as a supplement. It has been the aim of the Department to publish these bulletins from time to time as they are ready, so that the results of the investigations made by the Laboratory might reach the public with as little delay as possible. I am glad to say that it is pleasant to realize that a marked improvement in the character of both foods and drugs has been evidenced by the results of recent inspections, in comparison with the results of last year's inspections.

The most notable innovation in the work of this Branch during the year has been the establishment of branches of the Central Laboratory at Halifax, Winnipeg, and Vancouver. Two of these are at present in commission, and the sub-laboratory at Winnipeg will shortly be ready for work. The Department has deemed it wise for the present to establish sub-laboratories at the extreme east and west of the Dominion, and at its geographical centre. Should results of these experiments fulfil expectations, the erection of new branches may prove desirable in the near future, so that the system may be extended to other important cities. The work done in these laboratories will continue to be supervised by the Chief Analyst. The men in charge of the sub-laboratories are men who have been trained at the Ottawa Laboratory, and their experience will undoubtedly be very profitable to them in their

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work. The desirability of inspecting foods and drugs, especially those of a perishable nature, near the place of production or purchase, is the main reason for this departure; but it is also considered that, in offering local facilities for inspection work under the Acts already named, this Department is conferring an easily appreciated benefit upon both producer and consumer.

The very large and constantly increasing demand for our publications is evidence that a wide public interest in the matter of food inspection exists, and I am glad to believe that manufacturers are increasingly anxious to be protected in the uttering of genuine and high-class products, by insisting that imitations and mixtures shall be properly described, and offered to the public for what they truly are. No fault can be found with any wholesome food substance merely because of its being made of low-priced material, but there is a distinct wrong done, both to the honest manufacturer and to the consumer, when such a substitute is inadequately distinguished from the actual food which it may resemble.

J. U. VINCENT,  
*Deputy Minister.*

SESSIONAL PAPER No. 14

OTTAWA, June 19, 1915.

J. U. VINCENT, Esq. K.C.,  
Deputy Minister,  
Inland Revenue.

SIR,—I have the honour to report upon the work, etc., of the Laboratory Branch of the Inland Revenue Department, for the year ending March 31, 1915.

Important changes have taken place during the year in the organization of this branch of the service, and it may be well to place on record the following:—

At the beginning of the year, the technical staff was employed at Ottawa only, and consisted of the following members:

1. Chief Analyst, A. McGill, B.A., B.Sc., etc.
2. 1st Assistant, A. Lemoine, V.S., Laval.
3. 2nd “ A. Valin, Diploma (Bacteriologist) McGill College.
4. 3rd “ E. L. C. Forster, M.A., Toronto.
5. 4th “ C. C. Forward, Diploma, Sch. Science, Toronto.
6. 5th “ W. V. Kitto, B.A., Toronto.
7. 6th “ A. P. Couture, B.A., McGill University.
8. 7th “ J. A. M. Dawson, B.A., Toronto.
9. Laboratory Assistant, Miss S. E. Wright.

In accordance with the terms of an Order in Council dated October 13, 1913, and mentioned in my report of last year, arrangements have been made for the establishment of sub-laboratories at Halifax, Winnipeg and Vancouver. Accommodation at Winnipeg has been found in the Postal Station at the corner of Magnus Ave. and Main street.

This is a government building, and the Winnipeg sub-laboratory may be regarded as permanently located.

At Halifax and Vancouver provision has been made for permanent accommodation in government buildings, which are projected in these cities. Meanwhile, temporary quarters have been secured, at Halifax by rental of 50 Bedford Row; and at Vancouver, by adaptation of certain rooms in the upper storey of 249 Hastings Street, a building which is rented by the government for temporary use as a branch post office, and for other purposes.

The sub-laboratory at Halifax was the first to be placed in commission, and Mr. C. C. Forward, Fourth Assistant Analyst at Ottawa, was sent to Halifax as analyst in charge, in December, 1914.

That at Vancouver was commissioned in February, 1915, and Mr. J. A. M. Dawson, Seventh Assistant Analyst, was placed in charge.

Mr. E. L. C. Forster, Third Assistant Analyst, at Ottawa, has been nominated to take charge of the Winnipeg sub-laboratory; which, however, was not ready for occupation on March 31 of this year. It is hoped that it will be placed in commission very shortly.

The appointment of these men to the outside laboratories above named seriously reduces the technical staff at Ottawa; and the following temporary and probational appointments have been made:—

October 15, 1914.—P. T. Kirwin, B.A. Sc., Toronto.

“ 19, 1914.—A. J. Landry, B.A., New Brunswick, B.Sc., McGill.

“ 20, 1914.—S. J. Cook, B.A., Toronto.

“ 20, 1914.—W. A. Davidson, M.A., Toronto.

January 4, 1915.—F. C. Collier.

I append the existing organization of our technical staff as approved by departmental letter No. 126722 of File 108043, dated March 17, 1915.

Laboratories at Ottawa.....	1. Chief Analyst.
	2. Deputy Chief Analyst.
	3. First Assistant Analyst and Bacteriologist.
	4. Second Assistant Analyst and Botanist.
	5. Third Assistant Analyst.
	6. Fourth " "
	7. Fifth " "
	8. Sixth " "
	9. Seventh " "
	10. Eighth " "
	11. Ninth " "
	12. Laboratory Assistant.
Sub-laboratory at Halifax....	13. Analyst in charge.
	14. Assistant Analyst.
Sub-laboratory at Winnipeg..	15. Analyst in charge.
	16. Assistant Analyst.
Sub-laboratory at Vancouver..	17. Analyst in charge.
	18. Assistant Analyst.

It will be noted that assistants have not been named for the sub-laboratories, and it may become necessary to supply these vacancies by transferring men from the Ottawa laboratory at least temporarily.

The great extent of our territory appeared to require the establishment of the sub-laboratories at the points named; and I trust that my next report may show the wisdom of this step taken.

The work done during the year, so far as this has regard to analysis of samples sent in by our inspectors is reported in Bulletins Nos. 285 to 309 inclusive, and may be summarized as below:—

Number of Bulletin.	Subject.	Number of Samples.
285	Canned Corn.....	205
286	Ground Pepper.....	259
287	Tea.....	149
288	Confectionery.....	174
289	Strained Honey.....	194
290	Coffee and Coffee Substitutes.....	339
291	Fertilizers.....	480
292	Marshmallows.....	93
293	Evaporated Apples.....	184
294	Edible Oils.....	114
295	Lime Juice.....	100
296	Stock Feeds.....	151
297	Citrate of Magnesia.....	52
298	Milk.....	59
299	Macaroni, Vermicelli and Spaghetti.....	140
300	White Lead ground in oil.....	104
301	White Paint.....	116
302	Bran.....	187
303	Paris Green.....	24
304	Condensed Milk.....	200
305	Evaporated Milk.....	178
306	Hydrogren Peroxide.....	37
307	Unfermented Grape Juice.....	111
308	Baking Powders.....	251
309	Jams and Compound Jams.....	227
	Total.....	4,128

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Occasional samples to the number of 816 have been analyzed as follows:—

	Sample s.
Apples. . . . .	5
Apples Evaporated. . . . .	135
Apple Waste. . . . .	13
Acetic Acid. . . . .	43
Bag Material. . . . .	1
Baking Powder. . . . .	2
Barley. . . . .	3
Bandoliers. . . . .	1
Beer. . . . .	46
Butter. . . . .	48
Bran. . . . .	9
Calorigine. . . . .	1
Cheese. . . . .	2
Chloroform. . . . .	10
Chocolate Creams. . . . .	20
Cleansers. . . . .	5
Cocoa Wine. . . . .	5
Coffee. . . . .	3
Conservatose. . . . .	1
Corn Meal. . . . .	1
Denatured Fusel Oil. . . . .	1
Drugs. . . . .	7
Ether. . . . .	3
Evaporated Milk. . . . .	6
Feed. . . . .	2
Fertilizers. . . . .	21
Florida Water. . . . .	40
Flour. . . . .	4
Fusel Oil. . . . .	9
Gelatine. . . . .	1
Ginger. . . . .	5
Gluten Meal. . . . .	1
Hamburg Steak. . . . .	1
Honey. . . . .	1
Ice Cream. . . . .	1
Jam. . . . .	16
Jelly Crystals. . . . .	1
Kelp. . . . .	1
Lard. . . . .	1
Lemon Extract. . . . .	3
Lime Juice. . . . .	4
Linseed Oil. . . . .	7
Liquor. . . . .	1
Maple Cheese. . . . .	1
Maple Sugar. . . . .	31
Maple Syrup. . . . .	36
Medicine. . . . .	1
Methylated Spirits. . . . .	3
Middlings. . . . .	1
Milk. . . . .	6
Mineral Water. . . . .	5
Molassine Feed. . . . .	1

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	Samples.
No-Egg. . . . .	1
Pellets. . . . .	2
Pepper. . . . .	124
Perfume. . . . .	2
Pork Chop. . . . .	1
Powder. . . . .	1
Porterine. . . . .	1
Preservative. . . . .	4
Salt. . . . .	1
Sausages. . . . .	2
Schlivovitz. . . . .	1
Shortening. . . . .	1
Skimmed Milk. . . . .	6
Solid Alcohol. . . . .	1
Spices . . . . .	5
Spirits. . . . .	3
Stock Tonic. . . . .	1
Syrup. . . . .	5
Tincture. . . . .	9
Vanilla Extract. . . . .	4
Vinegar. . . . .	16
Virogerm. . . . .	1
Vodka. . . . .	1
Water. . . . .	43
Wine. . . . .	3
White Lead. . . . .	1
Wood Spirits. . . . .	2
Total. . . . .	816

In addition to this there have been 303 samples of vinegar tested for the Excise; and the following standard solutions furnished to collectors of the Inland Revenue at various points.

Normal Soda. . . . .	120 Winchester.
Normal Acid. . . . .	21 bottles.
Solution of Phenolphthalein. . . . .	29 "

Standards have been established under Section 26 of the Act as follows:—

Colouring Matters (G. 1112) April 21, 1914.

" " (revised) (G. 1167) January 18, 1915.

Sugar (G. 1135) August 9, 1914.

Maple Sugar and Syrup, by amendment to the Act (G. 1152) October 20, 1914.

Lime Juice (G. 1172) January 29, 1915.

Warranty of Purity (G. 1120) May 9, 1914.

Warning to Dealers (G. 1169) January 24, 1915.

The Halifax sub-laboratory has reported the following work done there between the date of its being put into commission and March 31, 1915.

	Samples.
Vinegar. . . . .	10
Cream of Tartar. . . . .	10
Native Wine. . . . .	20
White Pepper. . . . .	38
Table Syrups. . . . .	23
Milk. . . . .	20
Chop Feed. . . . .	20

Total. . . . . 141

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The following summary may be given in recapitulation:—

Analyses reported as Bulletins.. . . .	4,128
Occasional samples.. . . .	816
Vinegar.. . . .	303
Samples from Halifax sub-laboratory.. . . .	141
<hr/>	
Total analyses.. . . .	5,388
Standard solutions supplied.. . . .	170

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

## APPENDIX A.

### BULLETIN No. 285—CANNED CORN.

OTTAWA, April 7, 1914.

WM. HIMSWORTH, Esq.,  
Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report upon 205 samples of Canned Corn, purchased by our Inspectors in November, December and January last.

Many enquiries have been lately made regarding the weight of the contents of the tin container in which corn is packed; the use of starch in the packing liquid, the employment of Saccharin as a sweetener, and of sulphurous acid or sulphites for bleaching the corn.

It will be noted that the contents of these cans are of very uniform weight, and approximate 20 ounces net.

Saccharin is entirely absent.

Sulphites in more than traces are found in 50 samples or about 25 per cent of the whole number examined.

The last inspection of this article was made in 1911 and is reported in Bulletin No. 226. Thirty-one per cent of a collection of 146 samples showed sulphites to be present at that time.

The following paragraphs from the introduction to Bulletin No. 226 are applicable here:—

“The question of the use of sulphurous acid (the acid present in sulphites) in foods is a very important one. Some information regarding the matter will be found in Bulletin 126, pp. 24-26, published in 1906. In the intervening five years, a great deal of investigation has been carried on; and a good deal of legislation has resulted, much of this has been proved to be hasty, in the sense of having been undertaken without full knowledge of the matters treated, and has had to be amended or has remained inoperative. (See F.I.D., No. 89, U.S., Department of Agriculture.)

“That sulphurous acid is a poison, is perfectly well ascertained but that it acts deleteriously on the human system in the minute quantity present in corn, has not been demonstrated. Much of the sulphite introduced as a bleaching agent is oxidized to sulphate, and thus rendered harmless. Free sulphurous acid is further got rid of in the process of cooking the corn, and it is certain that only very minute traces can remain in the article as served at the table. While I do not think that we are in possession of incontrovertible evidence to justify legislative interference in the matter of the employment of sulphites in food, I believe the question to be of such consequence as to demand further and very careful investigation; and in the meantime, I would recommend that, in all cases where acid sulphites, or sulphurous acid has been



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used in the preparation of food products, a declaration of such fact should appear on the label."

It is satisfactory to note that the employment of sulphurous acid in bleaching corn appears to be on the decrease; and I am informed by several large manufacturers that they have entirely discontinued its use. Apart altogether from the question of harmfulness to health, the article is not improved in food value by being bleached and its appetizing character is not enhanced by destruction of the beautiful yellow colour natural to the corn.

Legislation has recently been recommended which requires that, when sulphurous acid (or sulphites) is used as a bleach, the fact of such use must be declared on the label.

It is usual to put up the corn with a liquid to which starch has been added. I am unable to discover any intention to defraud the consumer, in this practice. The starch commonly employed is that natural to the corn itself. In the light of present knowledge no further comment upon this feature can be usefully made.

The following letter of the Acting Chairman of the Board of Food and Drug Inspection at Washington, printed in Service and Regulatory Announcements for January, 1914, will show how the matter is regarded in the United States:—

"DEAR SIR,—The Board has been advised that the following situation confronts the canners of corn in certain sections of the country:—

"The corn has ripened very late, and, in spite of the fact that the corn is of the finest quality and flavour, it lacks sufficient starch to pack properly on account of the fact that the liquids will separate from the solids in the canning, and, therefore, in order to produce a satisfactory product it is necessary to add cornstarch to the extent of 1 to 1½ per cent.

"In the opinion of the Board, on the facts as stated, and, if no inferiority of the corn is concealed, this addition would be permitted, under regulation 25, section 7 (a), which states that 'When a substance of a recognized quality commonly used in the preparation of a food or drug product is replaced by another substance not injurious or deleterious to health, the name of the substituting substance shall appear upon the label.' If a product, prepared as indicated, were plainly labelled 'Sweet Corn with added Starch,' there would not appear to be any violation of the Food and Drugs Act.

"It is, however, plain to the Board that starch may be added to sweet corn in a manner whereby inferiority is concealed, and whereby water is added, which addition of starch would clearly constitute a violation of the Act. The canners are, however, familiar with the conditions under which they are working, and the Board is not; the canners should, therefore, be able to decide the proper course from the above statement of facts.

"Very respectfully,

"A. S. MITCHELL,

*"Acting Chairman, Board of Food and Drug Inspection."*

I beg to recommend publication of this report as Bulletin No. 285.

I have the honour to be, Sir,

Your obedient servant,

ALP. LEMOINE,  
*Acting Chief Analyst.*

## BULLETIN No. 285—CANNED CORN

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cest.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's report. (Is not an expression of Opinion.)	Results of Analysis.			No. of Sample.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Weight of Contents in Ounces.	Sulphites.	Saccharin.	
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.												
1913.												
Dec. 15	Canned Corn.	53801	Hendry, Ltd., Liverpool, N.S.	3 cans	35	Simcoe Canning Co., Simcoe, Ont.	Unknown	Lynn Valley Brand.	20.1	trace.	none.	53801
" 16	"	53802	John McLean & Son, N.S.	3 "	30	Bloomfield Canning Co., Bloomfield, Ont.	"	Quaker Brand	20.2	none.	"	53802
" 16	"	53803	H. C. Barnaby, Bridge-water, N.S.	3 "	30	A. C. Miller, Picton, Ont.	R. B. Seeton, Halifax, N.S.	Little Chief.	19.9	trace.	"	53803
1914.												
Jan. 15	"	53804	Wm. Moore, Halifax, N.S.	3 "	25	BritishCanadian Canning Co., Hamilton, Ont.	Mfrs.		20.4	none.	"	53804
" 16	"	53805	A. L. Doyle & Co., Halifax, N.S.	3 "	25	Bloomfield Canning Co., Bloomfield, Ont.	"		20.4	trace.	"	53805
" 16	"	53806	John Tobin & Co., Halifax, N.S.	3 "	27	"	"	Labelled Cream Corn	19.2	none.	"	53806
" 22	"	53807	Canada Food Co., N.S.	3 "	25	Simcoe Canning Co., Simcoe, Ont.	"		19.2	pre-sent.	"	53807
" 22	"	53808	Wentzell's, Ltd., N.S.	3 "	25	BritishCanadian Canning Co., Hamilton, Ont.	"		20.2	none.	"	53808
" 22	"	53809	E. W. Grease & Son, N.S.	3 "	30	A. C. Miller, Picton, Ont.	"		20.0	trace.	"	53809
" 23	"	53810	R. E. Adams, Halifax, N.S.	3 "	30	Simcoe Canning Co., Simcoe, Ont.	Chisholm & Co., Halifax, N.S.		20.0	none.	"	53810
" 23	"	53811	Dillon Bros., Halifax, N.S.	3 "	30	Frankford Canning Co., Frankford, Ont.	Mfrs.		20.4	trace.	"	53811
" 23	"	53812	Bentley & Layton, Halifax, N.S.	3 "	30	BritishCanadian Canning Co., Hamilton, Ont.	Wentzell's, Ltd., Halifax, N.S.		20.1	none.	"	53812



## BULLETIN No. 285.—CANNED CORN.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.	Results of Analysis.		No. of Sample.
			Quantity.	Cents.	Manufacturer.	Furnisher.		Weight of Contents in Ounces.	Sulphites.	
DISTRICT OF QUEBEC—Continued.										
1913.										
Nov. 26	Canned Corn.	Edore Delisle, 3 Ave. Tac- hereau, Quebec.	3 cans	30	A. C. Miller, Pictou, Ont.	J. B. Turcotte & Cie.	.....	20-2	Pre- sent.	56026
" 26	"	J. P. Gagnon, 109 Rue St.	3 "	36	"	Turcotte & Frere.	.....	20-3	trace.	56027
" 27	"	Ambroise, Quebec.	3 "	...	"	Ledroit & Frere.	.....	20-0	"	56028
" 27	"	Victor, Beauport, Quebec.	3 "	30	"	Turcotte & Frere.	.....	19-6	"	56029
" 27	"	Carillon, Quebec.	3 "	36	Boulter & Son, Pictou, Ont.	J. B. Latallier.	.....	20-2	none.	56030
" 27	"	Renaud, Quebec.	3 "	36	"	Gagnon et Garent.	.....	21-3	trace.	56031
" 27	"	L. Desgagne, 314 Rue St.	3 "	36	A. C. Miller, Pictou, Ont.	"	.....	20-2	"	56032

## DISTRICT OF EAST QUEBEC—ALP. PELLETHIER, INSPECTOR.

Dec. 26	Canned Corn..	2403 D. Bouchard, St. Anne des 3 Monts.	3 cans	33	A. C. Miller & Co., Pic- ton, Ont.	.....	20-2	trace.	2403
" 26	"	J. Leclerc & Frere, St. 3	"	36	British Canadian Can- ners, Hamilton, Ont.	.....	20-7	none.	2405
" 26	"	St. Anne des Monts.	"	30	A. C. Miller & Co., Pic- ton, Ont.	.....	20-0	trace.	2408
" 29	"	N. Pelletier, Jr., Cap-Chat 3	"	30	Simcoe Canning Co., Simcoe, Ont.	.....	20-2	"	2416
" 9	"	Cyril Clarest, Matane..... 3	"	36	A. C. Miller, Pictou, Ont.	.....	20-3	"	2419
" 29	"	L. J. Levasseur, Matane... 2	"	36	Exeter Canning Co., Exeter, Ont.	.....	20-2	none.	2421
" 29	"	N. Ruell, Matane..... 3	"	36	.....	.....	20-2	"	2421

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## DISTRICT OF THREE RIVERS—DR. V. P. LAVALLÉE, INSPECTOR.

Dec. 30 1914.	Canned Corn.	2127 P. A. Parent, Blanche.	Riviere 3 cans	30	W. Boulton & Son, Pic- ton, Ont.		20-6	Trace.	None.	2127
Jan. 10	"	2429 A. F. Bontin, St. Flavie...	3 "	30	British Cannery, Ham- ilton, Ont.		20-3	None.	"	2429
" 10	"	2432 A. C. Landry, St. Flavie.	3 "	30	"		20-3	"	"	2432
" 10	"	2436 C. Bonville, St. Flavie...	3 "	25	A. C. Miller, Picton, Ont.		20-3	Pre- sent.	"	2436
" 10	"	2440 C. Leteque & Co., St. Fla- vie.	3 "	25	British Canadian Can- nery, Hamilton, Ont.		20-6	None.	"	2440
" 10	"	2443 B. St. Amant, St. Flavie.	3 "	30	"		20-8	Pre- sent.	"	2443
Nov. 22 1913.	Canned Corn.	59778 W. Brissette, St. Felix.....	3 cans	20	Dean, Cannery, Ltd., Hamilton.		20-4	Pre- sent.	None.	59778
" 22	"	59779 G. H. Read, St. Felix.....	3 "	30	"		20-3	Trace.	"	59779
" 22	"	59780 Albert Belloc, St. Felix.....	3 "	30	Simcoe Canning Co., Simcoe.		20-0	"	"	59780
" 24	"	59781 Leonce Miville, St. Cleo.....	3 "	30	Dom. Cannery Ltd., Hamilton.		20-4	None.	"	59781
" 24	"	59782 Alexis Martineau, St. Cleo.....	3 "	30	Canning Co., Picton, Ont.		20-4	Trace.	"	59782
" 25	"	59783 J. Hanna, St. Felix.....	3 "	30	Chaput Fils, Mont- real.		20-6	None.	"	59783
" 28	"	59784 J. T. Laferriere, St. Gab.....	3 "	30	Chevalier & Pouliot, Montreal.		20-4	"	"	59784
" 29	"	59785 Uric Durecher, St. Gab.....	3 "	30	"		20-4	"	"	59785
Dec. 1	"	59786 Denis Teller, Berthier.....	3 "	30	A. C. Miller, Picton, Ont.		20-9	Pre- sent.	"	59786
" 1	"	59787 J. O. Daviau, Berthier.....	3 "	30	Simcoe Canning Co., Simcoe, Ont.		20-4	None.	"	59787
" 4	"	60929 Ernest Asselin, St. Felix.....	3 "	30	Dom. Cannery, Ltd., Hamilton.		20-0	Pre- sent.	"	60929
" 5	"	60930 Dame Henri Ducharme, St. Felix.	3 "	30	Canadian Cannery, Ltd., A. C. Miller, Picton Ont.		20-6	None.	"	60930

6 GEORGE V, A. 1916

## BULLETIN No. 285.—CANNED CORN.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.
									Weight of Contents in Ounces.	Sniphites.	Saccharin.	
					Quantity.		Manufacturer.	Furnisher.				
1913.												
Dec.	4 Canned Corn.	2238	M. Dumais, Thetford Mines.	3 cans	30	Exeter Canning & Preserving Co., Exeter, Ont.			20-1	None.	None.	2238
"	"	2239	G. T. Armstrong, Sherbrooke.	3 "	25	Dom. Cannery, Ltd., Hamilton.			21-0	"	"	2239
"	"	2240	E. Patry, Victoriaville.	3 "	30	Winona Preserving Co., Winona, Ont.		P. Thibault, Victoriaville.	20-2	Trace.	"	2240
"	"	2241	A. Poliquin, Drummondville.	3 "	30	A. C. Miller & Co., Picton, Ont.	J. A. Montplaisir, Drummondville.		20-2	Present.	"	2241
"	"	2242	M. L. Lemaire, Magog.	3 "	30	Simcoe Canning Co., Simcoe, Ont.	Denault Grain Prov. Co., Sherbrooke.		19-7	Trace.	"	2242
"	"	2243	M. Coté, Granby.	3 "	30	Miller & Co., Trenton, Ont.	Hudon & Orsali, Montreal.		20-7	Present.	"	2243
1914.												
Jan.	14 "	2244	Legare & Cie., St. Joseph, Be.	3 "	30	A. C. Miller & Co., Picton, Ont.			20-1	Trace.	"	2244
"	15 "	2245	J. A. Dallaire & Cie., Evariste, Be.	3 "	30	Exeter Canning & Preserving Co., Ltd., Exeter, Ont.	A. B. Dupuis, Qué.		21-0	"	"	2245
"	16 "	2246	C. Beaudoin, Tring June.	3 "	30	A. C. Miller & Co., Picton, Ont.			20-6	"	"	2246
"	20 "	2247	P. Davignon, Marieville.	3 "	30	Simcoe Canning Co., Simcoe, Ont.	Hudon & Orsali, Montreal.		19-9	"	"	2247
"	22 "	2248	Jos. Foisy, St. Hyacinthe.	3 "	30	Ontario Cannery Ltd., Sarnia, Ont.	Dupuis & Leblanc, St. Hyacinthe.		20-2	"	"	2248
"	22 "	2249	P. Racine, St. Hyacinthe.	3 "	30		L. Chaput fils & Co., Montreal.		20-2	"	"	2249

DISTRICT OF EASTERN TOWNSHIPS—J. C. ROULEAU, INSPECTOR.



## BULLETIN No. 285—CANNED CORN.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspectors Report, (Is not an expression of Opinion).	Results of Analysis.			No. of Sample.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Weight of Contents in Ounces.	Sulphites.	Saccharin.	

## DISTRICT OF VALLEYFIELD—Continued.

1913.													
Dec. 30	Canned Corn.	58539	G. Desjardine, Hawkesbury, Ont.	3 cans	30			Gazelle Brand	20.6	None	None		58539
" 30	"	58540	A. Legault, Hawkesbury, Ont.	3 "	30			Victoria "	20.4	Pre-sent	"		58540
" 30	"	58541	A. Dumoulin, Hawkesbury, Ont.	3 "	30			Lynn Valley "	20.2	Trace.	"		58541
" 30	"	58542	F. X. Bertrand Co., Hawkesbury, Ont.	3 "	30			Lion "	20.3	None	"		58542

## DISTRICT OF ARGENTEUIL, TWO MOUNTAINS AND TERREBONNE—N. CADIEUX, TEMPORARY INSPECTOR.

Dec. 6	Canned Corn.	2349	J. N. Desjardine, St. Jerome, P. Q.	3 cans	30			Gazelle Brand	20.3	Trace.	None		2349
" 6	"	2350	Chas. E. Laflamme, Jerome, P. Q.	3 "	30			Valley "	20.1	"	"		2350
" 19	"	2351	Antoin Leduc, St. Agathe des Monts.	3 "	36		Hudon & Hebert		19.8	Pre-sent	"		2351
" 19	"	2352	R. Touchette, St. Agathe des Monts.	3 "	30		Laporte & Martin		21.1	None	"		2352

## DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

Dec. 9	Canned Corn.	59259	P. A. Gagne, South Indian	3 cans	30	Don. Cannery, Hamilton.	F. J. Castle & Co., Ottawa.	Bonlters	20.0	Trace.	None		59259
" 10	"	59260	Jno. H. Shaw, Shawville, P. Q.	"	30	"	"	Little Chief	20.3	"	"		59260



## SESSIONAL PAPER No. 14

"	11	"	59261	I. B. York, Wakefield, P. Q.	30	British Canadian Cann- ers Ltd., Hamilton.	.....	Britannia.....	20-8 pre- sent.	59261
"	16	"	59262	The Civil Service Co-Op. Supply Assn., Ottawa.	25	"	S. J. Major, Ottawa.	Parliament.....	20-5 Trace.	59262
"	16	"	59263	D. Deguire, Eastview.	30	.....	S. J. Major, Ottawa.	British Canadian.....	20-8 none.	59263
"	18	"	59264	E. McEwen, Hull.	25	Dom. Cann-ers Ltd., Hamilton.	P. Daoust, Hull.	White Rose.....	21-1 trace.	59264
"	18	"	59265	"	25	"	"	Lynn Valley.....	20-2 "	59265
"	18	"	59266	Wm. Sarasin, Hull.	25	The Ottawa Canning Co., Ltd., Oshawa, Ont.	Unknown.	Kitchner.....	20-8 none.	59266
"	19	"	59267	Matthews-Laing Ltd., Ottawa.	33	Ont. Cann-ers Ltd., Sal- uia, Ont.	"	Prairie.....	20-4 trace.	59267
"	19	"	59268	B. Slatery, Ottawa.	38	Napanee Canning Co., Ltd., Napanee.	.....	Canada's Pride.....	20-6 none	59268
"	20	"	59269	E. Carrière, Rochester St., Ottawa.	25	Dom. Cann-ers Ltd., Hamilton.	.....	White Rose.....	20-2 pre- sent.	59269
"	20	"	59270	C. Goulet & fils, 289 Roch- ester St., Ottawa	30	"	.....	.....	20-5 none.	59270

## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR

Dec.	8	Canned Corn.	61048	J. B. Hutcheson, Kings- ton.	30	.....	.....	Old Homestead.....	20-7 pre- sent.	61048
"	8	"	61049	Wm. Davies, Kingston.	27	.....	.....	"	20-6 "	61049
"	8	"	61050	W. E. Hopkinson & Bro., Kingston.	30	.....	.....	Solar.....	20-4 none.	61050
"	8	"	61051	Geo. Gibson, Kingston.	30	.....	.....	Old Homestead.....	20-4 trace.	61051
"	8	"	61052	L. W. Murphy, Kingston.	25	.....	.....	"	20-2 pre- sent.	61052
"	8	"	61053	J. Kennedy, Kingston.	25	.....	.....	Thistle.....	20-4 trace.	61053
"	8	"	61054	G. D. Vallean, Kingston.	25	.....	.....	Old Homestead.....	20-3 "	61054
"	8	"	61055	Mrs. Irwin, Kingston.	30	.....	.....	Crossed Keys.....	20-4 pre- sent.	61055
"	8	"	61056	J. R. B. Gage, Kingston.	30	.....	.....	"	20-3 "	61056
"	9	"	61057	W. H. Milling, Napanee.	25	.....	.....	Canada's Pride.....	21-1 "	61057
"	9	"	61058	R. Elvins, Belleville.	30	.....	.....	.....	20-0 none.	61058
"	9	"	61059	H. S. Fairfield, Belleville.	25	.....	.....	Anchor.....	20-7 "	61059

## BULLETIN No. 285—CANNED CORN.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.		
				Quantity.	Cents.			Weight of Contents in Ounces.	Sulphites.	Saccharin.
DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.										
1913.										
Nov. 24	Canned Corn.	57544	Jas. Lumbers Co., Ltd., 67 Front st., east, Toronto.	3 cans.	24	The Vineland Canning Co., Ltd., Vineland.	Vine Brand.....	21.2	Trace.	None.
" 24	"	57545	T. Kinnear & Co., 493 Front st., east, Toronto.	" 30		Aylmer Canning Co., Ltd., Aylmer, Ont.	Canada First.....	19.6	pre-sent.	"
" 24	"	57546	Perkins, Ince & Co., 433 Front st., east, Toronto.	" 22		Exeter Canning & Preserving Co., Ltd., Exeter.	Excelsior.....	20.3	none.	"
" 24	"	57547	Eby Blain, Ltd., 21 Front st., east, Toronto.	" 25			Anchor. Packed for Vendors, Essex Brand.....	19.8	trace.	"
" 24	"	57548	Canada Brokerage Co., 93 Front st., east, Toronto.	" 25		The Essex Canning & Preserving Co., Ltd., Essex.		20.7	none.	"
" 24	"	57549	T. J. Medland, 130 King st., east, Toronto.	" 25		New Burford Canning Co., Ltd., Burford.	New Burford Brand.	20.5	trace.	"
" 24	"	57550	John Sloan & Co., 2803 Church st., Toronto.	" 30		Bloomfield Packing Co., Ltd., Bloomfield.	Quaker Brand.....	20.4	pre-sent.	"
" 25	"	57551	The Wm. Davies Co., Ltd., 832 College st., Toronto.	" 25		Beaver Canning Co., Ltd., Bloomfield.	Arm Chair Brand...	20.4	trace.	"
" 25	"	57552	A. G. Hill, 640 College st., Toronto.	" 25		British Canadian Canners, Ltd., Hamilton.	Fleur de Lis Brand..	21.2	none.	"
" 25	"	57553	J. H. Kerr, 406 Spadina ave., Toronto.	" 37		Aylmer Canning Co., Ltd., Aylmer, Ont.	Canada First Brand.	20.6	"	"
" 25	"	57554	J. G. Butcher, 139 Peter st., Toronto.	" 25		The Pelham Canning Co., Ltd., Fenwick.	Pelham Brand.....	20.1	pre-sent.	"
" 25	"	57555	R. Dawson, 254 Queen st., west, Toronto.	" 25		Beausville Preserving Co., Beausville.	Peerless Brand.....	20.2	"	"
" 25	"	57556	M. McAuliffe, 212 Queen st., Toronto.	" 30			Monarch Brand.....	21.2	"	"
						H. P. Eckardt & Co., Toronto.				

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

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## DISTRICT OF HAMILTON, H. J. DAGER, ACTING INSPECTOR

Dec.	3	Canned Corn.	59853	D. R. Duncan, 342 2nd Ave., east.	25	.....	Eby Blain, Ltd., Toronto & Sons Co., Ltd., Owen Sound.	Anchor Brand, packed for Furnishers, Canada First Brand.	20 6	None.	59853
"	3	"	59854	Wm. Tolwy, 857 2nd Ave., east, Owen Sound.	30	.....	Geo. Watt & Sons, Brantford.	Canada First Brand.	20 4	"	59854
"	4	"	59855	Geo. Howe, Palmerston.	3	"	Bloomfield Packing Co., Ltd., Bloomfield.	Quaker Brand	19 6	Pre-sent.	59855
"	5	"	59856	D. Jackson & Son, Guelph.	3	"	Deil Fruit Farms, Grimsby.	Eby Blain, Ltd., Toronto.	19 8	None	59856
"	5	"	59857	The Simpson Co., Guelph.	3	"	The Delhi Fruit & Vegetable Canning Co., Ltd., Delhi.	Maple Leaf Brand.	20 6	"	59857
"	10	"	59858	Geo. Foster & Sons, Ltd., 262 Colborne st., Brantford.	3	"	.....	.....	20 3	Pre-sent.	59858
"	10	"	59859	W. J. Mellon, 223 Brock st., Brantford.	3	"	Vinland Canning Co., Vinland.	Vine Brand.	19 6	Trace.	59859
"	12	"	59860	Geo. E. Bristol & Co., 73 McNabb st., north., Hamilton.	3	"	Vendors	Empire Brand	20 4	"	59860
"	12	"	59861	Balfour Smye & Co., 723 McNabb st., north., Hamilton.	3	"	.....	Tartan Brand.	20 2	"	59861
"	12	"	59862	E. Lees, 291 King st., east, Hamilton.	3	"	J. W. Windsor, Montreal and St. Johns, Can.	Ice Castle Brand	19 7	None.	59862
"	12	"	59863	MacPherson, Glasco & Co., 116 King st., east, Hamilton.	3	"	Dom. Cannery, Hamilton	Lynn Valley	19 8	Pre-sent.	59863
"	12	"	59864	R. D. Saul, 150 James st., north, Hamilton.	3	"	New Barford Canning Co., Ltd., Barford, Ont.	New Barford	20 0	Trace.	59864

## DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

Dec.	12	Canned Corn.	53604	W. J. O'Neil, Clinton. <th>3</th> <th>cans</th> <th>H. P. Eckardt &amp; Co., Toronto.<th>Monarch Brand.<th>20 1</th><th>None.</th><th>53604</th></th></th>	3	cans	H. P. Eckardt & Co., Toronto. <th>Monarch Brand.<th>20 1</th><th>None.</th><th>53604</th></th>	Monarch Brand. <th>20 1</th> <th>None.</th> <th>53604</th>	20 1	None.	53604
"	12	"	53607	H. Wilke, Clinton. <td>3</td> <td>"</td> <th>Aylmer Canning Co.,</th> <th>Canada First.</th> <th>20 4</th> <th>Trace.</th> <th>53607</th>	3	"	Aylmer Canning Co.,	Canada First.	20 4	Trace.	53607
"	5	"	54445	John Fairbairn, London. <td>3</td> <td>"</td> <th>Dominion Cannery.</th> <th>.....</th> <th>20 3</th> <th>None.</th> <th>54445</th>	3	"	Dominion Cannery.	.....	20 3	None.	54445
"	9	"	54463	J. M. Adam, St. Mary's, East. <td>3</td> <td>"</td> <th>Aylmer Canning Co., Aylmer, Ont.<th>Canada First.</th><th>20 0<td>"</td><th>54463</th></th></th>	3	"	Aylmer Canning Co., Aylmer, Ont. <th>Canada First.</th> <th>20 0<td>"</td><th>54463</th></th>	Canada First.	20 0 <td>"</td> <th>54463</th>	"	54463
"	10	"	54468	A. G. Loyd, Stratford. <td>3</td> <td>"</td> <th>Dellhi Canning Co., Delhi<th>Maple Leaf Brand<th>20 6<td>"</td><th>54468</th></th></th></th>	3	"	Dellhi Canning Co., Delhi <th>Maple Leaf Brand<th>20 6<td>"</td><th>54468</th></th></th>	Maple Leaf Brand <th>20 6<td>"</td><th>54468</th></th>	20 6 <td>"</td> <th>54468</th>	"	54468
"	10	"	54471	Seavth Grocery Co., Stratford. <td>3</td> <td>"</td> <th>"</th> <th>"</th> <th>20 8<td>"</td><th>54471</th></th>	3	"	"	"	20 8 <td>"</td> <th>54471</th>	"	54471

Partly decomposed.



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"	16	"	"	"	53207	McDonald & Forman, 3 cans.	30	The Vineland Canning Co., Ltd., Vineland, Ont.	Vine Brand.....	20-1	None	53207
"	16	"	"	"	53208	Sutherland & Robertson, 30	30	Powmanville Canning Co., Bowmanville, Ont.	Durham Brand.....	20-4	"	53208
"	18	"	"	"	53209	J. Donnelly, Norwood	"	British Canadian Cannery Ltd., Hamilton, Ont.	British Can. Brand.....	21-0	Trace.	53209
"	18	"	"	"	53210	W. J. Kennedy, Norwood Grove	"	Bell Fruit Farms, Grimsby, Ont.	Swiss Bell Brand.....	20-1	None.	53210
"	19	"	"	"	53211	J. A. MacDonell, Portage Ave., Winnipeg.	"	British Canadian Cannery Ltd., Hamilton, Ont.	British Can. Brand.	20-1	Trace.	53211
"	19	"	"	"	53212	E. S. Harvey, Portage Ave., Winnipeg.	"	E. D. Smith, Winona, Ont.	.....	19-8	"	53212

## DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.

Dec.	1	Canned Corn.	51833	Hallier & Aldridge, 3 cans.	40	British Canadian Cannery Ltd., Hamilton, Ont.	.....	.....	.....	20-9	None.	51833
"	1	"	51834	J. H. Morris & Co., Edmonton.	40	Hudson, Helbert & Co., Ltd., Montreal.	.....	.....	.....	19-6	Trace.	51834
"	2	"	51835	The Acme Co., Edmonton.	30	Balfour, Smyre & Co., Hamilton, Ont.	.....	.....	.....	20-8	Pres.	51835
"	2	"	51836	A. Macdonald & Co., Edmonton.	20	Bell Fruit Farms, Grimsby, Ont.	.....	.....	.....	19-6	None.	51836
"	2	"	51837	Revillon, Edmonton	"	Delhi Fruit & Veg. Canning Co., Delhi, Ont.	.....	.....	.....	20-1	"	51837
"	3	"	51838	Hudson's Bay Co., Edmonton.	40	Vineland Canning Co., Vineland, Ont.	.....	.....	.....	21-1	Trace.	51838
"	4	"	51839	Montgomery & West, Wetaskiwin.	40	Dominion Cannery, Ltd., Ont.	.....	.....	.....	20-9	"	51839
"	4	"	51840	Abousaffy & Murray, Wetaskiwin.	45	E. D. Smith, Winona, Ont.	.....	.....	.....	20-0	Pres.	51840
"	5	"	51841	H. E. McLeod, Lacombe.	40	Balfour & Smyre, Hamilton, Ont.	.....	.....	.....	20-6	None.	51841
"	11	"	51842	S. G. Freeze, Calgary.	38	Vineland Canning Co., Vineland, Ont.	.....	.....	.....	19-4	Trace.	51842
"	11	"	51843	Hudson's Bay Co., Calgary.	40	"	.....	.....	.....	20-1	None	51843
"	12	"	51844	Price-Jones (Canada), Ltd., Calgary.	30	Aylmer Canning Co., Aylmer, Ont.	.....	.....	.....	20-0	"	51844

## DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

Dec.	2	Canned Corn.	50002	R. G. Ritchie, Cascade, 3 cans.	45	Bloomfield Packing Co., Bloomfield.	.....	.....	.....	20-1	Trace.	None.	50002
"	4	"	50003	N. L. McInnes & Co., Grand Forks, B. C.	40	Aylmer Canning Co., Aylmer, Ont.	.....	.....	.....	21-0	"	"	50003



## SESSIONAL PAPER No. 14

## DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Dec.	9	Canned Corn.	57702	Windsor Grocery Co., 817 Govt. st., Victoria, B.C.	40	Beans.	Bloomfield Packing Co., Bloomfield, Ont.	Quaker Brand	20 6	Pre- sent.	None.	57702
"	9	"	57709	Copas & Young, 633 Fort st., Victoria, B.C.	40	"	Balfour, Snive & Co., Hamilton, Ont.	Tartan Brand.	20 8	Trace.	"	57709
"	11	"	57720	The West End Grocery Co., Ltd., 1002 Govt. st., Victoria, B.C.	40	"	Brighton Canning Co., Brighton, Ont.	Thistle Brand.	20 7	"	"	57720
"	11	"	57727	Acton Bros., 1317 Douglas st., Victoria, B.C.	40	"	Bloomfield Packing Co., Ltd., Bloomfield, Ont.	Quaker	20 0	None.	"	57727
"	12	"	57731	Diwi H. Ross & Co., 1317 Govt. st., Victoria, B.C.	75	"	D. E. Price & Son, Das- ington, M.D.	S. N. Hyde Brand.	20 5	Trace.	"	57731
"	16	"	57746	H. O. Kirkham, 511 Fort st., Victoria, B.C.	45	"	Faine Canning Co., T. Tipton, M.D.	Country Gentleman	21 2	"	"	57746
"	16	"	57747	" "	40	"	Bloomfield Packing Co., Bloomfield, Ont.	Quaker	19 6	Pre- sent.	"	57747
"	18	"	57761	Fenerty Bros., Oak Bay Junction, B.C.	40	"	Brighton, Canning Co., Brighton, Ont.	Thistle	20 6	None	"	57761

## APPENDIX B.

BULLETIN No. 236—GROUND GINGER AND A STUDY OF  
ANALYTICAL RESULTS.

OTTAWA, April 23, 1914.

GEO. W. TAYLOR, Esq.,  
Acting Deputy Minister, Inland Revenue.

SIR,—I have the honour to submit a report on Ground Ginger as sold in Canada. This report deals with 259 samples, purchased in November and December of 1913, and in January of this year.

Ginger has been inspected on five occasions, before the present; and has always been found to be more or less adulterated, as shown by the following record:—

Year.	Bulletin.	Total samples.	Adulterated	Percentage of adulteration.
1897.....	48	98	26	26
1904.....	45	10	4	40
1907.....	137	30	1	3
1909.....	184	150	32	21
1912.....	236	151	14	9
1914.....	286	259	48	20

The adulteration referred to in the above tabulation may be called *gross*, inasmuch as it consists, mainly of added foreign material, viz.: starches or flour, turmeric, cayenne or mineral matter.

A more subtle form of adulteration, namely, the intermixture or substitution of exhausted ginger, has for the most part escaped penalization. Exhausted ginger is ginger from which the components which give the article value as a spice have been extracted. After extraction, the residual tissues retain their characteristic forms and the starch may be so little altered as to be indistinguishable from normal ginger starch. As a spice, this residue possesses practically no value, and should not be found on the market except perhaps as an ingredient in Cattle Foods, where it may possibly find legitimate use, although even this is doubtful. It is however quoted in many wholesale price lists, and I find one of this year, offering Spent Ginger at 4 cents f.o.b. Montreal, while genuine Ginger is quoted at 10½ cents.

It will be readily understood that the availability of this comparatively useless article offers a great temptation to grinders; and there can be no doubt whatever that many samples reported herewith, as well as in former bulletins, consist in part of the spent ginger, or exhausted ginger above referred to.

The difficulty of detection lies in the fact that the characteristic microscopic structure remains unaltered, and even the chemical characters are so little changed that a considerable percentage of spent ginger may be added to a good quality of genuine ginger without modifying the specific constants to such an extent as to justify the analyst in declaring the sample adulterated.

The only effective way of meeting the case would seem to be the establishing of standards for moisture, total and water soluble ash, and extractive matters, beyond which a sample should be declared illegal.

This alternative has been kept in view from the first, and I am of opinion that the data which we have accumulated since 1897, will be found sufficient basis for standardization of commercial ground ginger.



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The moisture content varies from about 6.5 to 10 per cent so far as the present report is concerned. Somewhat higher numbers were found in 1897 (Bull. 48), 1904 (Bull. 95), while distinctly lower percentages of water were found in 1906 (Bull. 137). It is, however, quite unusual to find less than 7 per cent of water in genuine ginger. This datum is of little value, considered in itself, but in its relation to total extractive by cold water, it must be regarded as essential.

The ash content of ginger depends much upon the way in which the rhizomes are cleaned before grinding, and is of course, greatly influenced by the presence of lime used as a coating of the rhizome. This practice is quite common, and must be held to account for the extremely variable amounts of total mineral residue obtained on incineration.

The most important datum for judging adulterations by addition of spent ginger is the percentage of cold water extractive.

The exhaustion of ginger by water entails loss of soluble salts, and consequent reduction of water soluble ash; so that a lowered water extractive is usually accompanied by a lowered soluble ash. The following study illustrates the effect of previous extraction upon the ash percentage.

Four samples of genuine gingers were worked before and after extraction with cold water, and ash determined.

Sample.	Total Ash.				Water Soluble Ash.			
	Before.	After.	Loss.	p.c. loss.	Before.	After.	Loss.	p.c. loss.
37584 .....	5.42	3.14	2.28	42	2.18	0.65	1.53	70
37587 .....	4.65	2.25	2.40	52	1.98	0.30	1.68	85
39458 .....	4.59	1.38	3.21	70	3.38	0.24	3.14	93
39464 .....	3.63	0.98	2.65	73	1.86	0.15	1.71	92

From Bulletin No. 184.

Method of working for determination of cold water extractive in ground ginger.

Weigh 10 grammes into a 500 cc volumetric flask of Wagner form; fill to the mark with distilled water, close, and place on a rotator of 24 inches diameter revolving 40 times per minute for 30 minutes. Centrifuge a portion of the mixture, filter and evaporate 50 cc to dryness in platinum at 100°C. Cool and weigh residue.

It will be observed that the exhaustion of ginger by cold water results in notable reduction of both the total ash, and the water soluble ash; but the percentage reduction of soluble ash is much greater than that of the total ash.

It follows that an exhausted or spent ginger yields not only a lower extractive, but also a lower soluble ash number.

Before attempting to interpret the numbers obtained on analysis it is desirable to ascertain characteristic numbers for samples known to be genuine.

The first work done in these laboratories upon ground ginger was published in Bulletin No. 48 (May, 1897), and a mean of 14.03 per cent, cold water extractive was found for seven samples of ginger believed to be genuine. The mean soluble ash found for these samples was 2.96.

An improved method of determining cold water extractive was applied to four samples (reported in Bulletin No. 95—p. 23—February, 1904), and resulted in an average of 19.3 per cent extractive. The ash was not determined.

Bulletin No. 137 (July, 1907), gives extractives for twenty-eight samples of ground (mostly Jamaica) gingers, by the method employed in 1904, the average extractive being 21.95 per cent. The ash was not determined.

These results appear to indicate that genuine ginger should yield about 19 to 20 per cent of extractive to cold water, under conditions of working as described in Bulletin No. 95.

Two samples of African ginger, accompanied by guarantees of genuineness have recently been worked in this laboratory, with the following results:—

Sample A—12·80 Extractive.

“ B—14·90 “

A sample of Jamaica ginger, guaranteed genuine, was worked at the same time and yielded 19·90 per cent extractive.

It follows that a distinction should be made between Jamaica and African gingers in this regard; and it is possible that Cochin, Cape and other varieties of ginger may differ among themselves, characteristically.

Bulletin No. 184 (July, 1909), contains a report on 150 samples of ground ginger. Of this number 112 showed only ginger tissues under the microscope. Ninety-seven of these gave extractive above 14 per cent, and it will be convenient for purposes of study, to consider separately, such samples of ground ginger, showing no foreign admixture under the microscope, as yielded above and below 14 per cent extractive to cold water.

The subjoined table (1) gives a synopsis of 97 samples of presumably genuine ginger, as reported in July, 1909, (Bulletin No. 184).

TABLE I.

District.	No. samples.	Extractive.			Soluble Ash.		
		Max.	Min.	Mean.	Max.	Min.	Mean.
Nova Scotia.....	7	17·47	14·30	15·64	2·69	2·17	2·28
Prince Edward Island.....	6	20·41	14·06	16·57	3·13	2·12	2·70
New Brunswick.....	9	20·38	14·20	16·29	2·48	1·63	2·21
Quebec.....	3	18·06	15·80	16·18	2·82	1·41	2·18
St. Hyacinthe.....	5	18·81	14·08	16·03	2·70	2·37	2·50
Montreal.....	4	17·15	14·27	15·91	2·33	1·38	2·05
Ottawa.....	5	18·54	14·68	16·78	2·97	2·18	2·57
Kingston.....	5	18·45	16·27	17·13	2·70	1·86	2·31
Toronto.....	5	17·72	14·90	16·69	2·82	2·02	2·36
London.....	9	19·56	14·85	16·31	3·04	2·14	2·57
Windsor.....	10	18·66	15·62	16·31	2·70	2·10	2·45
Manitoba.....	6	17·22	14·73	16·23	2·77	1·72	2·25
Calgary.....	6	18·75	14·22	16·61	2·78	1·80	2·38
Vancouver.....	9	16·92	14·58	15·95	2·62	1·89	2·16
Victoria.....	8	19·96	14·73	16·93	2·62	1·99	2·28

The following synopsis similarly arranged, shows the maximum, minimum and mean results obtained in analysis of 133 samples, reported in Bulletin No. 236, and yielding more than 14 per cent extractive.

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TABLE II.

Sample showing no foreign tissues—Extractive above 14 per cent.

District.	No. samples.	Extractive.			Soluble Ash.		
		Max.	Min.	Mean.	Max.	Min.	Mean.
Nova Scotia . . . . .	10	19.51	15.44	16.78	3.10	1.86	2.39
Prince Edward Island. . . . .	8	19.49	14.46	17.28	4.12	1.98	2.67
New Brunswick . . . . .	9	19.95	14.42	17.41	3.46	2.12	2.46
Quebec. . . . .	7	17.17	14.95	16.13	2.60	1.20	1.93
St. Hyacinthe. . . . .	10	20.42	15.47	17.75	3.04	0.86	2.00
Montreal . . . . .	7	20.61	15.46	17.40	6.08	1.80	2.69
Ottawa . . . . .	9	19.28	14.86	17.49	2.88	1.28	2.34
Kingston . . . . .	9	19.03	15.55	17.69	3.52	1.96	2.45
Toronto . . . . .	5	19.28	15.35	18.76	2.76	2.00	2.30
Windsor . . . . .	10	19.14	15.45	17.50	3.54	0.90	2.52
Manitoba . . . . .	10	19.95	15.93	17.60	2.68	1.40	2.11
Calgary . . . . .	10	18.87	14.77	16.29	4.20	1.88	2.42
Nelson . . . . .	9	18.94	16.20	17.34	3.74	1.34	2.48
Vancouver . . . . .	10	17.92	15.46	16.69	3.06	1.40	2.38
Victoria . . . . .	10	18.89	15.29	17.06	4.46	1.94	2.54

Finally the next Table (III) shows the results obtained with 194 samples yielding above 14 per cent extractive and reported in the present Bulletin No. 286.

TABLE III.

Samples giving more than 14 per cent extractive, and containing no foreign tissues.

District.	No. samples.	Extractive.			Soluble Ash.		
		Max.	Min.	Mean.	Max.	Min.	Mean.
Nova Scotia . . . . .	20	19.05	15.00	15.04	3.68	2.02	2.60
New Brunswick . . . . .	13	20.05	15.05	17.96	3.24	1.50	2.46
Quebec . . . . .	7	20.25	15.00	17.25	2.42	1.46	2.15
East Quebec . . . . .	7	19.95	14.35	16.41	2.58	1.48	2.23
Three Rivers . . . . .	7	17.70	14.70	16.20	2.62	1.12	2.04
Eastern Townships . . . . .	5	18.90	14.65	16.30	2.52	1.44	2.10
Montreal . . . . .	6	19.90	14.00	16.44	2.78	1.80	2.21
Valleyfield . . . . .	9	20.00	14.15	17.60	3.18	1.84	2.67
Ottawa . . . . .	8	19.20	14.45	15.97	2.80	1.92	2.37
Kingston . . . . .	14	19.90	14.30	17.31	3.32	2.10	2.41
Toronto . . . . .	16	20.80	14.25	17.46	2.74	2.04	2.36
Hamilton . . . . .	11	19.45	15.35	17.52	2.74	2.02	2.29
Windsor . . . . .	12	20.60	15.95	17.67	2.90	2.06	2.50
Manitoba . . . . .	15	20.55	15.10	16.91	3.28	2.00	2.42
Alberta . . . . .	15	18.25	16.50	17.35	2.96	1.84	2.43
Rocky Mountains . . . . .	13	18.30	14.05	16.21	2.72	1.92	2.40
Victoria . . . . .	14	18.80	14.30	16.60	2.64	2.00	2.38
Two Mountains . . . . .	2	17.30	15.50	16.40	2.90	2.33	2.61

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The three reports quoted in these tables, deal with representative collections of ground ginger as found on the Canadian markets, and may be summarized as follows:—

Bulletin.	Samples adulterated with foreign material.	Samples showing ginger tissues only.		Total.
		Above 14 p.c. extractive.	Below 14 p.c. extractive.	
No. 184. ....	38	97	15	150
No. 236. ....	7	133	11	151
No. 286. ....	33	194	32	259
	78	424	58	560

If this work done upon 560 samples may be taken as representative of the article, it is apparent that all the better grades of ginger yield above 14 per cent extractive to cold water, and fully 2 per cent of water soluble ash.

Further, the best grades of ginger yield much more than 14 per cent extractive, Jamaica ginger apparently yielding from 19 to 20 per cent.

It would seem reasonable that this class of gingers should be distinguished in commerce (retail commerce) from the more ordinary varieties; and it is not uncommon to find Jamaica ginger sold as such.

The following Table (IV) gives a conspectus of results obtained with gingers which yielded less than 14 per cent extractive matter.

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TABLE IV.

Samples showing less than 14 per cent extractive, and containing no foreign tissues.

No.	Bulletin No. 184.		Bulletin No. 236.		Bulletin No. 286.	
	Extract.	Soluble Ash.	Extract.	Soluble Ash.	Extract.	Soluble Ash.
1	13.00	2.25	12.57	1.90	13.45	2.40
2	11.17	1.81	13.69	3.40	13.45	2.18
3	11.80	1.66	12.83	1.50	6.80	0.54
4	9.11	0.79	10.88	1.14	12.00	2.14
5	5.83	0.62	11.83	1.59	13.20	1.50
6	11.93	1.59	12.18	1.42	10.00	1.44
7	13.89	1.96	11.75	1.10	13.60	1.48
8	12.97	1.27	11.49	1.60	13.10	1.18
9	13.98	2.09	10.43	1.46	12.20	1.88
10	13.01	1.37	13.88	3.36	12.10	1.88
11	13.54	2.06	13.33	1.60	12.75	1.26
12	13.84	2.52			12.90	2.00
13	12.26	2.46			13.25	2.00
14	12.47	2.39			11.35	2.86
15	12.24	2.52			13.50	1.68
16					13.60	1.54
17					12.30	2.18
18					13.65	1.62
19					13.60	1.58
20					13.00	1.66
21					7.20	0.82
22					13.65	1.62
23					7.30	0.54
24					13.80	1.00
25					11.15	1.16
26					7.15	0.44
27					11.00	1.46
28					13.75	1.76
29					12.50	2.04
30					13.15	2.00
31					12.70	1.98
32					13.55	2.48

It is quite evident that Table IV shows a distinctly inferior grade of ginger. In the light of our knowledge that African ginger may yield less than 14 per cent of extractive matter, it would be going too far to conclude that all the samples reported in Table IV are adulterated, or even suspicious; but it is to be remembered that our experience with low grade gingers, vouched for a genuine, is extremely limited. I shall endeavour to secure data in regard to this class of gingers, as soon as possible.

Samples showing less than 10 per cent extractive are, however, so entirely exceptional that it is impossible to regard them as free from admixture of spent ginger. Under this head must be reckoned two samples reported in Bulletin No. 184 and four samples included in the present report. In all these cases the soluble ash is notably less than one per cent.

Adulteration of ginger by admixture of foreign matters is apparently giving place to adulteration by the use of spent ginger. This latter mode of adulteration is much more difficult of detection than the former; and the following statement appears to show that it is replacing the cruder one. Per cent of adulteration by admixture of foreign matter reported in:—

Bulletin No. 184.. . . .	25 per cent.
“ “ 236.. . . .	4·6 per cent.
“ “ 286.. . . .	12·7 per cent.

The importance of the soluble ash number as a criterion of the genuineness of ginger is suggested by the following synopsis of results obtained with samples showing low percentages of soluble ash:—

	Bulletin No. 184.		Bulletin No. 236.		Bulletin No. 286.	
	Soluble Ash	Extract.	Soluble Ash.	Extract.	Soluble Ash.	Extract.
Ash below 1 per cent.....	0·79	9·11	0·86	16·56	0·54	6·80
	0·62	5·83	0·90	16·70	0·82	7·20
	.....	.....	.....	.....	0·54	7·30
	.....	.....	.....	.....	0·44	7·15
Ash below 1·25 per cent..	.....	.....	1·14	10·88	1·18	13·10
	.....	.....	1·10	11·75	1·00	13·80
	.....	.....	.....	.....	1·16	11·15
	.....	.....	.....	.....	1·12	17·00

With three exceptions it will be seen that a soluble ash of less than 1·25 per cent is accompanied by a suspiciously low percentage of extractive.

The results of the present inspection may be summarized as follows:—

	Samples.
Found genuine.. . . .	194
“ adulterated with foreign matter.. . . .	32
“ “ spent ginger.. . . .	4
Published without comment.. . . .	28
Doubtful.. . . .	1
Total.. . . .	259

It will be seen from the accompanying report that genuine ground ginger has been sold to our inspectors at prices (retail) varying from 25 to 40 cents per pound.

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None of even the most grossly adulterated samples are sold at lower prices. This fact tells against the retailer who certainly bought his stock-in-trade at a lower price than he would have paid for high grade goods.

We are often asked to blame the manufacturer rather than the small dealer; but in view of the fact above referred to, there can be no doubt that the retail dealer is thinking of his own profit, and not of furnishing cheaper goods to his customers, when he stocks up with lowest priced wares.

I beg to recommend publication of this report as Bulletin No. 286.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

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BULLETIN No. 286—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1914.							
Jan. 15	Ground Ginger	53866	Nat. Drug and Chem. Co., Halifax, N.S.	1 lb...	30	Vendors...	
" 19	" "	53867	John P. Mott & Co., Halif- fax, N.S.	1 " ..	16	" .....	
" 22	" "	53868	Canada Food Co., Halifax, N.S.	1 " ..	24	W. H. Schwartz & Sons, Halifax, N.S.	Manufacturers ..
" 2	" "	53869	Brown Bros. & Co., Halif- fax, N.S.	1 " ..	40	S. H. Ewing & Sons, Montreal.	" ..
" 22	" "	53870	Wentzells Ltd., Halifax, N.S.	1 " ..	22	J. P. Mott & Co., Halifax, N.S.	" ..
" 23	" "	53871	Bauld Bros., Halifax, N.S.	$\frac{3}{4}$ " ..	19	W. H. Schwartz & Sons, Halifax, N.S.	" ..
" 23	" "	53872	R. B. Adams, Halifax, N. S.	$\frac{3}{4}$ " ..	25	J. P. Mott & Co., Halifax, N.S.	" ..
" 23	" "	53873	D. J. Stewart, Halifax, N.S.	$\frac{3}{4}$ " ..	24	W. H. Schwartz, Halifax, N.S.	" ..
" 23	" "	53874	R. S. McDonald, Halifax, N.S.	1 " ..	40	N. D. & C. Co., Halifax, N.S.	" ..
" 23	" "	53875	Jas. D. Walsh, Halifax, N.S.	1 " ..	40	" "	" ..
" 23	" "	53876	Cahill & Co., Halifax, N. S.	1 " ..	40	Gorman Eckart Co., Toronto.	" ..
" 26	" "	53877	C. A. Barnstead, Halifax, N.S.	1 " ..	40	Lyman & Sons, Ltd., Montreal.	" ..
" 26	" "	53878	J. R. Rawley Estate, Halif- fax, N.S.	1 " ..	40	Ewing & Sons, Ltd., Montreal.	" ..
" 26	" "	53879	Corkum & Ritcey, Halif- fax, N.S.	$\frac{3}{4}$ " ..	20	Gorman & Eckart, Toronto, Ont.	" ..
" 27	" "	53880	W. H. Schwartz & Sons, Halifax, N.S.	1 " ..	20	Vendors .....	" ..
" 29	" "	53881	H. E. Wilson, Windsor, N.S.	1 " ..	40	Lyman & Sons, Montreal.	" ..
" 30	" "	53882	G. A. Burbridge, Halifax, N.S.	1 " ..	40	N. D. C. Co., Halif- fax, N.S.	" ..
" 30	" "	53883	E. J. Butcher, Dartmouth, N.S.	1 " ..	40	" "	" ..
" 30	" "	53884	Kinleys Ltd., Halifax, N. S.	1 " ..	40	" "	" ..
" 30	" "	53885	R. J. Blackie, Halifax, N.S.	1 " ..	40	" "	" ..
DISTRICT OF NEW BRUNSWICK—							
1913.							
Nov. 28	Ground Ginger	59333	G. E. Barbour Co., Ltd., St. John, N.B.	1 lb.	25	Vendors.....	
Dec. 3	" "	59334	H. W. Cole, Ltd., St. John, N.B.	1 " ..	20	" .....	



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## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.			Cold Water Extractive.		Microscopical Exam- ination.		
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.		p. c.	p. c.			
Sovereign Brand..	9.55	5.16	2.80	0.54	16.45	18.20	Ginger tissues and starch only.	53866	Genuine.
.....	9.30	7.32	3.30	0.45	13.60	15.00	" "	53867	"
.....	10.07	3.58	2.12	0.59	16.00	17.80	" "	53868	"
.....	8.57	3.78	2.24	0.59	17.20	18.85	" "	53869	"
.....	8.92	5.86	2.52	0.43	14.35	15.75	" "	53870	"
.....	9.67	4.48	2.02	0.45	15.30	16.95	" "	53871	"
.....	8.65	6.56	3.68	0.56	14.80	16.20	" "	53872	"
.....	9.82	5.28	2.66	0.50	14.35	15.90	" "	53873	"
.....	8.02	4.06	2.74	0.67	17.50	19.00	" "	53874	"
.....	9.15	4.72	2.72	0.58	16.30	17.95	" "	53875	"
.....	8.75	3.78	2.52	0.67	16.70	18.30	" "	53876	"
.....	9.17	3.46	2.40	0.69	17.00	18.79	" "	53877	"
.....	9.50	5.10	2.56	0.50	16.05	17.75	" "	53878	"
.....	8.67	5.02	2.56	0.51	15.90	17.40	" "	53879	"
.....	10.32	6.66	2.94	0.44	13.90	15.50	" "	53880	"
.....	9.67	3.30	2.38	0.72	17.20	19.05	" "	53881	"
.....	9.22	4.36	2.44	0.56	16.60	18.25	" "	53882	"
.....	9.52	5.04	2.60	0.51	15.90	17.55	" "	53883	"
.....	9.80	4.68	2.40	0.51	16.25	18.00	" "	53884	"
.....	9.25	4.70	2.48	0.53	16.90	18.60	" "	53885	"

J. C. FERGUSON, INSPECTOR.

Jamaica Ginger...	7.72	4.56	3.24	0.71	17.65	19.15	Ginger tissues and starch only.	59333	Genuine.
.....	7.62	4.40	2.58	0.59	16.20	17.55	" "	59334	"

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BULLETIN No. 286—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1913.							
Dec.	8 Ground Ginger	59335	Vanwart Bros., St. John, N.B.	1 lb..	40	Unknown .....	
"	10 "	59336	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	1 " ..	25	Vendors .....	
"	17 "	59337	Hill Bros., St. Stephen, N.B.	1 " ..	30	Gorman, Eckhart & Co., London & Winnipeg, Can.	
"	17 "	59338	Yerxa Grocery Co., Ltd., St. Stephen, N.B.	1 " ..	25	White, Swan S. & C. Co., Ltd., Toronto, Ont.	
1914.							
Jan.	6 "	59339	Currie Bros., Fredericton, N.B.	1 " ..	30	.....	A. F. Randolph & Son.
"	6 "	59340	G. T. Whelpley, Fredericton, N.B.	1 " ..	46	Pure Gold Mfg. Co., Ltd., Toronto, Ont.	
"	7 "	59341	B. H. Smith & Sons, Woodstock, N.B.	1 " ..	35	S. H. & A. W. Ewing, Montreal.	
"	9 "	59342	H. N. Dickinson, Perth, N.B.	1 " ..	40	G. E. Barbour Co., Ltd., St. John, N.B.	
"	13 "	59343	King Asbell & Co., Sussex, N.B.	1 " ..	25	.....	G. S. DeForest & Sons, St. John, N.B.
"	14 "	59344	Geo. A. Robertson, Moncton, N.B.	1 " ..	30	S. H. Ewing & Sons, Montreal.	
"	14 "	59345	D. A. McBeath, Moncton, N.B.	1 " ..	40	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	
"	16 "	59346	W. S. Loggie Co., Ltd., Chatham, N.B.	1 " ..	35	White, Swan S. & C. Co., Ltd., Toronto, Ont.	
"	16 "	59347	A. H. Marquis, Chatham, N.B.	1 " ..	40	" .....	

## DISTRICT OF QUEBEC—

1913.							
Nov. 27	Ground Ginger	56006	L. Desgagne, 914 rue St. Valier, Quebec.	1 lb..	40	Unknown .....	G. E. Hamel. . .
" 28	"	56007	Emile Blouin, 30 rue Carillon, Quebec.	1 " ..	30	" .....	Turcotte & Frere
" 28	"	56008	Jos. Poulin, 2 ave Reneaud, Quebec.	1 " ..	40	S. H. Ewing & Son, Montreal.	
" 28	"	56009	Louis Blouin, 81 ave Reneaud, Quebec.	1 " ..	40	Unknown .....	Quebec Preserving Co.
" 28	"	56010	Alphonse Turgeon, 111 rue St. Germain, Quebec.	1 " ..	40	" .....	Derouin Frere & Rattray.

## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Moisture.	Ash.			Cold Water Extractive.				Microscopical Examination.
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

*Concluded.*

	p. c.	p. c.	p. c.		p. c.	p. c.			
.....	7.15	5.24	2.40	0.46	12.50	13.45	Ginger tissues & starch only,	59335	
Signet Brand.....	7.10	4.26	2.56	0.60	17.20	18.50	" "	59336	Genuine.
Forest City Brand.	7.25	3.54	2.38	0.67	16.25	17.50	" "	59337	"
.....	7.25	3.64	2.58	0.71	18.20	19.60	" "	59338	"
.....	7.17	3.16	1.50	0.47	14.65	15.80	" "	59339	"
Jamacia Ginger...	7.77	3.34	2.36	0.71	17.80	19.30	" "	59340	"
.....	7.90	3.56	1.84	0.52	13.90	15.05	" "	59341	"
.....	8.02	4.62	2.60	0.56	16.45	17.90	" "	59342	"
.....	8.12	5.80	2.90	0.50	14.30	15.65	" "	59343	"
.....	7.42	3.70	2.54	0.69	18.55	20.05	" "	59344	"
Signet Brand., ...	8.42	4.26	2.18	0.51	12.30	13.45	" "	59345	"
.....	7.85	3.30	2.32	0.70	16.80	18.20	" "	59346	"
.....	7.70	3.70	2.64	0.71	17.80	19.30	" "	59347	"

## F. X. W. E. BELAND, INSPECTOR.

.....	7.32	3.58	2.38	0.66	17.70	19.10	Ginger tissues & starch only.	56006	Genuine.
.....	7.45	3.82	2.38	0.62	16.80	18.15	" "	56007	"
.....	7.32	2.96	0.54	0.18	6.30	6.80	" "	56008	Extractive low
.....	7.20	4.42	1.76	0.40	15.35	16.55	" "	56009	Adulterated.
.....	6.95	2.00	0.50	0.25	7.65	8.25	About 50% maize starch	56010	Genuine.
.....									Adulterated.

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BULLETIN No. 286—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1913.							
Nov. 23	Ground Ginger	56011	V. Bedard, 112 rue St. Germain, Quebec.	1 lb.	30	Unknown.....	Gagnon & Garent
Dec. 1	"	56012	Jos. Guimond, 179 rue Bayard, Quebec.	1 "	30	" .....	Unknown.....
" 2	"	56013	Jos. Peltier, 185 rue Mas-sue, Quebec.	1 "	40	" .....	J. B. Reneaud & Cie.
" 2	"	56014	H. Paquet, 132 rue Mont-calm, Quebec.	1 "	30	" .....	Unknown.....
" 2	"	56015	J. B. Routhier, 1023 rue St. Valier, Quebec.	1 "	40	" .....	Bedard & Frere.
" 2	"	56016	J. F. Ratte, 1170 rue St. Valier, Quebec.	1 "	40	" .....	Drouin, Frere & Rattray.
" 3	"	56017	T. Langlois, 1175 rue St. Valier, Quebec.	1 "	30	" .....	Unknown.....
" 3	"	56018	C. G. Carpenter, 1271 rue St. Valier, Quebec.	1 "	40	J. J. Duffy, Co., 5 St. Paul St., Montreal.	Whitehead & Turner.
" 3	"	56019	J. Rousseau, 1289 rue St. Valier, Quebec.	1 "	40	Unknown .....	Ewing, Mon-treal.
" 3	"	56020	Albert Faucher, 49 rue St. Bernard, Quebec.	1 "	30	" .....	Turcotte & Frere.

## DISTRICT OF EAST QUEBEC—

Dec. 26	Ground Ginger	2402	D. Bouchard, St. Anne des Monts.	1 lb.	35	.....	Gagnon & Garent, Quebec.
" 26	"	2409	N. Pelletier jr., Cap Chat.	1 "	35	W. E. Ewing, Mon-treal.	.....
" 27	"	2413	Felix Landri, Cap Chat.	1 "	35	.....	S. H. Ewing & Son Montreal.
" 29	"	2423	Paul Savard, Matane.	1 "	35	.....	Whitehead & Turner, Que.
" 30	"	2428	Ed. Ouillet, Rivière Blanche.	1 "	35	Unknown.....	.....
1914.							
Jan. 10	"	2435	C. Banville, St. Flavie.	1 "	35	.....	J. B. Dupuis, Quebec.
" 15	"	2460	H. Page, R. du Loup	1 "	30	Unknown.....	.....
" 15	"	2463	J. S. Proulx, R. du Loup.	1 "	40	.....	Unknown.....
" 15	"	2468	J. L. Drolet, R. du Loup.	1 "	40	.....	J. B. Reneaud, Quebec.

## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.			Cold Water Extractive.		Microscopical Exam- ination.		
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

*Concluded.*

	p. c.	p. c.	p. c.		p. c.	p. c.			
.....	7.67	4.30	2.30	0.53	13.85	15.00	Ginger tissues & starch only.	56011	Genuine.
.....	6.57	2.70	0.30	0.11	13.45	14.40	Consists principally of wheat flour coloured with turmeric, and about 25% of unidentified foreign material. Contains no ginger.	56012	Adulterated.
.....	7.85	4.80	2.34	0.49	13.85	15.00	Ginger tissues & starch only.	56013	Genuine.
.....	7.10	6.46	2.14	0.33	11.15	12.00	" "	56014	
.....	7.45	3.34	2.42	0.72	18.75	20.25	" "	56015	Genuine.
.....	6.77	1.96	0.40	0.20	7.15	7.70	About 50% maize starch.	56016	Adulterated.
.....	7.50	5.84	0.72	0.12	10.60	11.45	About 25% rice starch.	56017	"
.....	7.30	3.10	1.46	0.47	15.45	16.70	Ginger tissues and starch only.	56018	Genuine.
.....	7.52	3.33	1.50	0.45	12.20	13.20	" "	56019	
.....	7.05	3.24	0.32	0.10	6.10	6.55	About 40% rice starch and turmeric.	56020	Adulterated.

## ALP. PELLETIER, INSPECTOR.

.....	8.32	4.24	2.32	0.55	13.55	14.75	Ginger tissues and starch only.	2402	Genuine.
.....	7.50	2.04	0.64	0.31	11.00	11.90	At least 75% wheat flour. Cayenne.	2409	Adulterated.
.....	8.25	2.98	1.48	0.50	13.20	14.35	Ginger tissues and starch only.	2413	Genuine.
.....	7.85	1.94	0.80	0.41	6.75	7.35	About 25% maize starch.	2423	Adulterated.
.....	7.75	3.74	1.44	0.39	9.40	10.00	Ginger tissues and starch only.	2428	
.....	7.65	1.70	0.30	0.18	4.85	5.25	About 25% maize starch.	2435	Adulterated.
.....	7.62	4.50	2.58	0.57	15.05	16.30	Ginger tissues and starch only.	2460	Genuine.
.....	7.82	4.42	1.82	0.41	11.85	12.85	About 20% wheat flour.	2463	Adulterated.
.....	8.02	3.38	2.32	0.69	18.15	19.95	Ginger tissues and starch only.	2468	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF QUEBEC—

1914.							
Jan. 15	Ground Ginger	2470	E. Michaud, R. du Loup.	1 lb.	35	.....	Ewing & Son, Montreal.
" 16	"	2474	Damien & Co. ....	1 "	40	.....	Whitehead & Turner, Quebec.
" 16	"	2476	N. Dubreuil, Fraserville..	1 "	40	.....	T. Langlois, R. du Loup.
" 16	"	2478	J. B. Michaud, Fraserville.	1 "	40	.....	S. H. Ewing, Montreal.
" 16	"	2479	L. H. Levasseur.....	1 "	40	.....	Pure Gold Mfg. Co., Toronto, Ont.

## DISTRICT OF THREE RIVERS—

1913.							
Nov. 24	Ground Ginger	59782	Alexis Martineau, St. Cleophas.	1 lb.	40	.....	Jos. Dufresne, Joliette.
Dec. 4	"	59788	Jos. Mosseau, St. Felix...	1 "	40	.....	" " "
Nov. 22	"	59790	Wilfrid Brissette, St. Felix	1 "	40	.....	Chevalier & Pouliot, Joliette.
" 24	"	59791	Leonce Meville, St. Cleophas.	1 "	35	Herron Leblanc, Montreal.	.....
" 28	"	59793	J. T. Laferriere, St. Gabriel.	1 "	30	.....	Chevalier & Pouliot, Joliette.
" 29	"	59794	Ulric Desrochers, St. Gabriel.	1 "	40	.....	Magnan & Chevalier, Joliette.
Dec. 1	"	59795	Alfred Lavallee, Berthierville.	1 "	40	.....	Laporte Martin, Montreal.
" 1	"	59796	Dionis, Tellier, Berthier..	1 "	40	S. H. Ewing & Sons, Montreal.	.....
" 1	"	59797	J. O. Davian, Berthier..	1 "	40	Lyman Sons, Montreal.	.....
" 1	"	59798	O. Paquette, Berthierville.	1 "	30	Kearney Bros., Montreal.	.....
" 1	"	59799	Arthur Caisse, Berthierville.	1 "	40	Laporte Martin, Montreal.	.....
" 1	"	59800	Beaudoin Pierre, Berthierville.	1 "	40	Hudon Hebert, Montreal.	.....
" 4	"	60924	Ernest Asselin, St. Felix..	1 "	40	Chevalier & Pouliot, Joliette.	.....
" 4	"	60925	Arthur Tessier, St. Felix.	1 "	40	Unknown.....	.....
" 10	"	60926	Magnan Bros., Joliette...	1 "	40	J. V. Boudrias, Montreal.	.....

## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Moisture.	Ash.			Cold Water Extractive.				Microscopical Exam- ination.
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

*Concluded.*

.....	p. c.	p. c.	p. c.		p. c.	p. c.	Ginger tissues and starch only.	2470	
	8.10	3.42	1.48	0.43	12.50	13.60			
.....	7.82	3.22	1.18	0.37	12.10	13.10	" "	2474	
.....	8.20	3.64	2.14	0.59	15.10	16.45	" "	2476	Genuine.
.....	7.62	3.54	2.46	0.69	16.90	18.30	" "	2478	"
.....	8.37	3.78	2.30	0.61	15.50	16.90	" "	2479	"

## DR. V. P. LAVALLEE, INSPECTOR.

.....	7.90	4.40	2.12	0.48	14.55	15.75	Ginger tissues and starch only.	59782	Genuine.
.....	7.30	2.26	1.56	0.69	13.10	14.15	About 50 p.c. maize and wheat flour.	59788	Adulterated.
.....	7.00	3.76	1.88	0.50	11.35	12.20	Ginger tissues and starch only.	59796	
.....	7.22	5.62	1.12	0.20	15.80	17.00	" "	59791	Genuine.
.....	7.02	3.80	1.88	0.50	11.25	12.10	" "	59793	
.....	7.47	4.98	1.26	0.25	16.35	17.70	" "	59794	Genuine.
.....	7.22	4.28	2.62	0.61	14.60	15.70	" "	59795	"
.....	7.67	2.82	1.26	0.45	11.75	12.75	" "	59796	
.....	8.00	5.54	2.00	0.36	11.85	12.90	" "	59797	
.....	7.40	4.10	2.62	0.64	16.40	17.70	" "	59798	Genuine.
.....	7.67	4.40	2.32	0.53	13.70	14.85	" "	59799	"
.....	7.47	3.24	1.40	0.43	12.95	14.00	About 50 p.c. maize and wheat flour.	59800	Adulterated.
.....	7.50	4.24	2.00	0.47	12.25	13.25	Ginger tissues and starch only.	60924	
.....	5.52	9.16	8.34	0.91	14.80	15.65	At least 75 p.c. foreign matter, consisting of wheat flour, olive stones and cayenne. Ash, consists principally of alkaline carbonate.	60925	Adulterated
.....	7.15	4.80	2.20	0.46	13.65	14.70	Ginger tissues and starch only.	60926	Genuine.

6 GEORGE V, A. 1916

BULLETIN No. 288—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1913.							
Dec. 4	Ground Ginger	2222	P. Boissonneault, St. Maurice de Thetford.	14 oz.	25	Unknown .....	Unknown .....
" 9	"	2223	T. Roberge, Sherbrooke...	1 lb.	35	" .....	" .....
" 10	"	2224	P. Thibault, Victoriaville.	1 " ..	30	Herron, Leblanc, Ltd., Montreal.	.....
" 11	"	2225	Johnston Bros., Lennoxville.	3 pkg.	24	" ..	.....
" 15	"	2226	Pinaud & Freres, Drummondville.	1 lb.	40	.....	.....
" 15	"	2227	W. E. Lewis, Knowlton...	3 pkg.	30	The Pure Gold Mfg. Co., Toronto, Ont.	.....
" 15	"	2228	L. H. Pibus, Knowlton...	3 " ..	30	S. H. Ewing & Sons, Montreal.	.....
" 16	"	2229	D. L. G. Lavigne, Lawrenceville.	1 pkg.	.....	.....	Hudon, Hebert & Cie., Montreal.
" 16	"	2230	N. Hamel, Magog .....	1 lb.	40	Nat. Coffee & Spice Co., Montreal.	.....
" 17	"	2231	Hubert & Jolin, Waterloo, P.Q.	1 " ..	35	Unknown .....	Unknown .....
" 17	"	2232	R. W. Bradford, Granby	1 " ..	30	" .....	" .....
1914.							
Jan. 13	"	2233	Dallaire & Veilleux, St. Joseph Be.	3 pkg.	30	The Brodie Mfg. Co., Montreal.	.....
" 15	"	2234	J. Rancourt, St. Victor de Tring.	1 lb.	22	Unknown ..	Unknown.....
" 15	"	2235	Roberge & Fils, St. Evariste.	1 " ..	40	.....	Whitehead & Turner, Quebec
" 20	"	2236	N. Préfontaine, Marieville	1 " ..	25	.....	L. Chaput fils et Cie., Montreal.
DISTRICT OF MONTREAL—							
Jan. 13	Ground Ginger	58077	Longeway & Lewis, 329 St. Antoine St., Montreal	3 pkg.	15	.....	S. H. Ewing & Sons, Montreal
" 13	"	58078	T. Coggins, 319 St. Antoine St., Montreal.	1 lb.	40	.....	LeBlanc, Ltd. ...
" 13	"	58079	R. H. Fetterley, 305 St. Antoine St., Montreal.	1 " ..	40	.....	S. J. Carter. ...
" 15	"	58080	A. Desrochers, 7 Mountain St., Montreal.	1 " ..	40	.....	Herron & Leblanc.
" 16	"	58081	Co-Operative Grocery Co., 293 St. Antoine St., Montreal.	1 " ..	40	.....	" ..
" 16	"	58082	J. R. Lefebvre, 246 St. Antoine St., Montreal.	1 " ..	40	.....	" ..
" 16	"	58083	E. Rochon, 697 Notre Dame St. West, Montreal.	1 " ..	40	.....	Unknown.....



## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.							Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.			Cold Water Extractive.		Microscopical Exam- ination.	
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.		
							No. of Sample.	

## J. C. ROULEAU, INSPECTOR.

	p. c.	p. c.	p. c.		p. c.	p. c.			
.....	7.37	5.58	2.86	0.51	10.50	11.35	Ginger tissues and starch only.	2222	
.....	7.20	2.28	1.52	0.67	13.60	14.65	About 10 p.c. wheat and maize starch.	2223	Adulterated.
.....	7.27	2.32	1.46	0.63	12.80	13.80	About 25 p.c. maize and wheat flour.	2224	"
.....	6.67	3.22	1.30	0.40	13.85	14.85	About 50 p.c. wheat flour.	2225	"
.....	7.27	3.48	1.46	0.42	13.35	14.40	About 50 p.c. maize and wheat flour.	2226	"
.....	8.07	3.46	2.36	0.68	17.35	18.90	Ginger tissues and starch only.	2227	Genuine.
.....	7.57	3.58	1.68	0.47	12.50	13.50	" "	2228	
.....	7.35	2.30	1.50	0.65	13.65	14.75	About 40% maize and wheat flour.	2229	Adulterated.
.....	7.07	3.76	1.70	0.45	13.70	14.75	Ginger tissues and starch only.	2230	Genuine.
.....	7.77	3.46	1.54	0.45	12.55	13.60	" "	2231	
.....	7.05	2.08	1.44	0.69	13.20	14.20	About 40% maize and wheat flour.	2232	Adulterated.
.....	7.47	6.92	2.18	0.32	11.40	12.30	Ginger tissues and wheat flour.	2233	
.....	7.55	4.26	2.48	0.58	16.20	17.50	" "	2234	Genuine.
.....	8.17	3.02	1.44	0.48	14.40	15.70	" "	2235	"
.....	7.40	5.60	2.52	0.45	13.55	14.65	" "	2236	"

## D. J. KEARNEY, INSPECTOR.

.....	7.37	4.00	1.86	0.46	15.40	16.60	Ginger tissues and starch only.	58077	Genuine.
.....	7.47	3.08	1.54	0.50	13.45	14.55	About 10% wheat and maize starch.	58078	Adulterated.
.....	7.25	4.24	2.32	0.55	16.35	17.65	Ginger tissues and starch only.	58079	Genuine.
.....	7.70	2.10	1.42	0.68	13.45	14.55	About 10% wheat and maize starch.	58080	Adulterated.
.....	8.05	3.42	2.46	0.72	18.10	19.90	Ginger tissues and starch only.	58081	Genuine.
.....	7.87	4.62	1.80	0.39	14.60	15.85	" "	58082	"
.....	7.70	3.06	1.56	0.51	13.30	14.40	About 10% wheat and maize starch.	58083	Adulterated.

6 GEORGE V, A. 1916

BULLETIN No. 286—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—							
1914.							
Jan. 20	Ground Ginger	58084	Archambault Frères, 747 Notre Dame St. West, Montreal.	14 oz..	35	.....	Herron & Leblanc.
" 20	"	58085	U. Bousquet, 892 Notre Dame St. West, Montreal.	1 lb.	35	.....	" ..
" 20	"	58086	Geo. Rolland, 973 Notre Dame St. West, Montreal.	1 " ..	40	.....	Labue & Cloutier.
" 20	"	58087	J. A. Doré, 1286 Notre Dame St. West, Montreal.	14 oz..	35	.....	Hudon, Hébert & Cie.
" 21	"	58088	Robitaille & Gauthier, 21 Craig St. West, Montreal.	1 lb..	40	.....	J. V. Boudrias, Ltd.
" 23	"	58089	J. Clement, 70 Vinet St., Montreal.	1 " ..	40	.....	Hudon & Orsali.
" 23	"	58090	V. Vian, 39 Vinet St., Montreal.	1 " ..	35	.....	S. H. Ewing & Sons.
" 23	"	58091	H. Legault, 176 Duvernay St., Montreal.	1 " ..	40	.....	Herron & Leblanc.

DISTRICT OF VALLEYFIELD—							
1913.							
Dec. 15	Ground Ginger	58545	J. Boyle, Alexandria, Ont.	1 lb..	40	.....	.....
" 15	"	58546	P. A. Huot & Son, Alexandria, Ont.	1 " ..	35	.....	.....
" 15	"	58547	Augusta Lalonde, Alexandria, Ont.	1 " ..	40	S. H. Ewing & Sons.	.....
" 29	"	58548	Peter McLaurin, Vankleek Hill, Ont.	1 " ..	30	.....	.....
" 29	"	58549	P. T. McLaurin, Vankleek, Ont.	1 " ..	40	.....	.....
" 29	"	58550	George Chalmers, Vankleek Hill, Ont.	1 " ..	25	White Swan S. & C. Co., Ltd.	.....
" 29	"	58551	J. C. Brown, Vankleek Hill, Ont.	1 " ..	30	.....	.....
" 29	"	58552	John Wilson, Vankleek Hill, Ont.	1 " ..	40	.....	.....
" 30	"	58553	D. Seward, Hawkesbury, Ont.	1 " ..	35	.....	.....
" 30	"	58554	A. M. Steele, Hawkesbury, Ont.	3 pkgs	30	S. H. Ewing & Sons.	.....
" 30	"	58555	Gilbert & Desjardins, Hawkesbury, Ont.	1 lb..	25	.....	.....
" 30	"	58556	A. Legault, Hawkesbury, Ont.	1 " ..	38	.....	.....
" 30	"	58557	A. Dumoulin, Hawkesbury, Ont.	1 " ..	35	.....	.....
" 30	"	58558	A. St. Jules, Hawkesbury, Ont.	1 " ..	35	.....	.....
" 30	"	58559	John Lecours, Hawkesbury, Ont.	1 " ..	40	.....	.....

## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.			Cold Water Extractive.		Microscopical Exam- ination.		
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

*Concluded.*

	p.c.	p.c.	p.c.		p.c.	p.c.			
.....	7.50	3.30	1.62	0.49	12.65	13.65	Ginger tissues and starch only.	58084	
.....	7.52	3.24	1.28	0.40	12.95	14.00	About 50% maize and wheat flour.	58085	Adulterated.
.....	7.80	3.16	1.58	0.50	12.55	13.60	Ginger tissues and starch only.	58086	
After purchase of sample, vendor said it was compound.	6.92	6.00	2.78	0.46	13.60	14.60	" " ..	58087	Genuine.
.....	7.27	3.26	2.06	0.63	16.65	17.95	About 10% wheat flour.	58088	Adulterated.
.....	7.27	2.48	1.62	0.65	14.35	15.50	" 25% " ..	58089	"
.....	7.67	4.32	2.02	0.47	12.90	14.00	Ginger tissues and starch only.	58090	Genuine.
.....	7.77	3.38	1.40	0.41	13.10	14.20	About 50% maize and wheat flour.	58091	Adulterated.

## J. J. COSTIGAN.

.....	7.87	3.38	2.24	0.66	17.30	18.75	Ginger tissues and starch only.	58545	Genuine.
.....	7.05	4.26	3.08	0.72	17.60	18.95	" " ..	58546	"
.....	7.35	4.12	2.68	0.65	18.50	20.00	" " ..	58547	"
.....	7.56	2.64	1.74	0.66	14.90	16.15	About 5% maize starch	58548	Doubtful.
.....	7.80	3.32	2.32	0.70	18.35	19.90	Ginger tissues and starch only.	58549	Genuine.
.....	7.95	3.64	2.64	0.72	17.80	19.35	" " ..	58550	"
.....	7.52	3.94	1.66	0.42	12.00	13.00	" " ..	58551	
.....	8.05	5.38	3.10	0.58	13.00	14.15	" " ..	58552	"
.....	7.72	5.28	2.98	0.56	13.90	15.05	" " ..	58553	"
.....	8.22	2.82	0.82	0.29	6.60	7.20	" " ..	58554	Extractive low
.....	7.82	1.36	0.56	0.41	10.20	11.05	At least about 75% wheat flour and foreign tissues, Cayenne.	58555	Adulterated.
.....	7.57	2.14	1.48	0.69	13.50	14.60	About 10% wheat and maize starch.	58556	"
.....	8.07	2.18	1.12	0.51	11.30	12.30	About 15% wheat flour.	58557	"
.....	7.75	3.10	1.84	0.59	15.90	17.25	Ginger tissues and starch only.	58558	Genuine.
.....	7.90	6.02	3.18	0.53	13.85	15.00	" " ..	58559	"

6 GEORGE V, A. 1916

BULLETIN No. 286—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ARGENTEUIL, TWO MOUNTAINS AND FERREBONNE—

1913.							
Dec.	5	Ground Ginger	2322 Wilfrid Mayer, St. Jerome, P.Q.	1 lb.	35	J. W. Beaudrias, Montreal.	.....
"	19	"	2323 G. Côté, St. Agathe des Monts.	1 "	40	Chaput et fils	.....
"	12	"	2325 R. Touchette, St. Agathe des Monts, Que.	1 "	40	Laporte et Martin,	.....

## DISTRICT OF OTTAWA—

Dec.	9	Ground Ginger	59244 P. A. Gagné, South Indian.	1 lb.	35	Unknown	Litster Co., Toronto, Ont.
"	9	"	59245 A. J. Leveillé, South Indian.	1 "	30	"	S. H. Ewing & Sons, Montreal.
"	9	"	59246 W. C. Edwards Co., Rockland.	1 "	40	"	Dalleys, Hamilton.
"	10	"	59247 G. F. Hodgins, Co., Shawville.	1 "	35	Pure Gold Mfg. Co., Ltd., Toronto, Ont.	Mfrs. ....
"	10	"	59248 W. A. Hodgins, Shawville.	1 "	35	.....	F. J. Castle Co., Ottawa.
"	11	"	59249 Geo. Patterson, Wakefield.	1 "	35	.....	Provost & Allard, Ottawa.
"	11	"	59250 Alex. Maclaren, Wakefield.	1 "	30	Unknown	.....
"	16	"	59251 The Civil Service Co-operative Supply Association, Ottawa.	1 "	40	"	.....
"	16	"	59252 R. Clark Cummings, Cummings Bridge.	1 "	40	.....	S. J. Major, Ltd., Ottawa.
"	16	"	59253 Emond Co., Eastview.	1 "	30	.....	Jos. Grant, Ottawa.
"	16	"	59254 D. Deguire, Eastview	1 "	40	.....	S. J. Major, Ltd., Ottawa.
"	16	"	59255 Jos. Durocher, Eastview	1 "	30	.....	"
"	17	"	59256 T. W. Collins, Friel St., Ottawa.	1 "	40	C. H. Cochrane & Co., Ottawa.	.....
"	18	"	59257 D. Sanche, 77 Wall St., Hull, P.Q.	1 "	25	J. M. Lowes Co., Toronto, Ont.	.....
"	18	"	59258 M. J. Laverdure, Albert St., Hull, P.Q.	1 "	40	Litster Pure Food Co., Toronto, Ont.	.....

## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.			Cold Water Extractive.				
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

## N. CADIEUX, TEMPORARY INSPECTOR.

	p.c.	p.c.	p.c.		p.c.	p.c.			
.....	7.87	3.18	1.62	0.51	12.60	13.65	Ginger tissues and starch only.	2322	
.....	6.42	3.20	2.33	0.72	16.25	17.30	" "	2323	Genuine.
.....	7.60	5.40	2.90	0.54	14.35	15.50	" "	2325	"

## J. A. RICKEY, INSPECTOR.

.....	7.52	4.51	2.80	0.62	13.85	15.00	Ginger tissues and starch only.	59244	Genuine.
.....	7.25	2.90	0.54	0.19	6.75	7.30	" "	59245	Extractive low Adulterated.
.....	7.15	4.22	2.50	0.59	13.70	14.75	" "	59246	Genuine.
.....	7.50	4.02	1.92	0.48	13.35	14.45	" "	59247	"
.....	7.20	3.44	1.00	0.29	12.80	13.80	" "	59248	
.....	7.15	4.82	2.18	0.45	13.70	14.75	" "	59249	Genuine.
.....	7.22	3.64	2.62	0.72	17.80	19.20	" "	59250	"
.....	7.85	2.64	1.16	0.44	10.30	11.17	" "	59251	
.....	7.20	2.88	0.44	0.15	6.60	7.15	" "	59252	Extractive low Adulterated.
.....	7.37	4.12	1.46	0.36	10.25	11.00	" "	59253	
.....	7.67	4.62	2.22	0.48	14.95	16.20	" "	59254	Genuine.
.....	7.75	5.36	1.76	0.33	12.65	13.75	" "	59255	
.....	7.80	4.34	2.22	0.51	15.60	16.90	" "	59256	Genuine.
.....	6.77	2.52	0.70	0.28	11.65	12.50	At least 75% wheat flour and foreign tissues. Cayenne.	59257	Adulterated.
.....	7.00	6.18	2.48	0.40	15.40	16.55	Ginger tissues and starch only.	59258	Genuine.

6 GEORGE V, A. 1916

BULLETIN No. 286—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1913.							
Dec. 9	Ground Ginger	61033	W. H. Milling, Napanee...	1 lb..	25	.....	Geo. Robertson & Son, Kingston.
" 9	"	61034	G. W. Boyes, Napanee...	1 "	40	.....	J. M. Lowes Co., Toronto.
" 9	"	61035	W. D. Nickle, Napanee...	1 "	40	.....	Todhunter & Mitchell, Toronto.
" 9	"	61036	H. C. Hampton, Belleville	1 "	40	.....	Walmley Co., Belleville.
" 9	"	61037	S. R. Arite, Belleville...	1 "	40	.....	J. Sloan Co., Belleville.
" 10	"	61038	W. Brunet, Cobourg.....	1 "	40	.....	Todhunter & Mitchell, Toronto.
" 10	"	61039	E. Guillet, Cobourg ....	1 "	40	.....	E. B. Blain, Toronto.
" 10	"	61040	Hoey & Son, Cobourg....	1 "	40	.....	Todhunter & Mitchell, Toronto.
" 10	"	61041	W. D. Stephens, Port Hope.	1 "	40	.....	"
" 10	"	61042	F. Rosevar, Port Hope....	1 "	40	.....	Perkins Ince Co., Peterboro.
" 11	"	61043	T. A. Fisher, Lindsay ...	1 "	40	.....	E. B. Blain, Toronto.
" 11	"	61044	A. L. Campbell, Lindsay.	1 "	40	.....	Pure Gold, Toronto.
" 11	"	61045	Adams Bros., Lindsay....	1 "	40	.....	J. M. Lowes Co., Toronto.
" 11	"	61046	J. Brown, Lindsay.....	1 "	40	.....	"
" 11	"	61080	A. Pearson, Peterboro....	1 "	40	.....	T. Kinner, Peterboro.
DISTRICT OF TORONTO—							
Dec. 22	Ground Ginger	57557	C. Barrett, 964 Bloor st, west, Toronto.	1 lb..	30	.....	Unknown.
" 22	"	57558	J. Kelday, 366 Ossington ave., Toronto.	1 "	40	.....	Todhunter Mitchell Co., Toronto.
" 22	"	57559	R. Penney, 195 Danforth ave., Toronto.	1 "	35	.....	Unknown.
" 22	"	57560	A. Sullivan, 2035 Yonge st. north, Toronto.	1 "	25	.....	"
" 30	"	57561	W. Howell, 2377 Queen st. east, Toronto.	1 "	35	.....	"
" 30	"	57562	J. J. Hall, 1628 Queen st. east, Toronto.	10 oz.,	20	.....	F. W. Humphrey, Toronto.
" 31	"	57563	M. Miceli, 28 Arthur st., Toronto.	1 lb..	35	Dalton Bros., Toronto.	Unknown.
" 31	"	57564	W. J. Hosken, 120 Arthur st., Toronto.	1 "	35	The J. M. Lowes Co., Ltd., Toronto.	.....
" 31	"	57565	Wm. McKenzie, 147 Yonge st., Toronto.	1 "	35	.....	Unknown.
" 31	"	57566	Wm. Cole, 246 Ave. Road, Toronto.	1 "	40	.....	"

## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expres- sion of Opinion.)	Results of Analysis.						Microscopical Exam- ination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.			Cold Water Extractive.				
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

## JAS. HOGAN, INSPECTOR.

	p. c.	p. c.	p. c.		p. c.	p. c.				
.....	7.72	4.96	2.20	0.44	14.00	15.15	Ginger tissues and starch only.	61033	Genuine.	
.....	7.80	4.34	2.34	0.54	14.45	15.05	" "	61034	"	
.....	7.82	3.52	2.36	0.67	18.05	19.55	" "	61035	"	
.....	6.97	5.62	2.48	0.44	14.25	15.35	" "	61036	"	
.....	7.17	5.00	2.40	0.48	14.15	15.25	" "	61037	"	
.....	7.35	3.52	2.30	0.65	17.80	19.45	" "	61038	"	
.....	8.10	4.14	2.10	0.51	13.15	14.30	" "	61039	"	
.....	7.25	3.66	2.38	0.65	17.65	19.05	" "	61040	"	
.....	7.50	3.38	2.20	0.65	16.50	17.85	" "	61041	"	
.....	7.45	3.48	2.28	0.65	18.40	19.90	" "	61042	"	
.....	7.65	3.46	2.44	0.70	18.30	19.85	" "	61043	"	
.....	7.75	3.50	2.54	0.73	18.40	19.95	" "	61044	"	
.....	7.60	4.10	2.48	0.60	15.40	16.65	" "	61045	"	
.....	7.55	2.04	1.08	0.53	9.20	10.00	About 50% maize and wheat flour.	61046	Adulterated.	
.....	7.35	6.66	3.32	0.50	13.30	14.35	Ginger tissues & starch only.	61080	Genuine.	

## H. J. DAGER, INSPECTOR.

.....	7.80	3.84	2.90	0.75	19.20	20.80	Ginger tissues & starch only.	57557	Genuine.
.....	8.37	5.66	2.74	0.48	14.10	15.35	" "	57558	"
.....	8.40	3.68	2.42	0.66	17.50	19.10	" "	57559	"
.....	8.52	4.54	2.26	0.50	15.20	16.60	" "	57560	"
.....	8.25	3.58	2.41	0.67	16.80	18.30	" "	57561	"
.....	7.75	3.38	2.40	0.71	15.85	17.15	" "	57562	"
Pure Ginger.....	8.25	4.70	2.14	0.46	13.10	14.25	" "	57563	"
.....	8.15	4.52	2.24	0.50	14.90	16.25	" "	57564	"
.....	7.95	3.42	2.42	0.71	16.85	18.35	" "	57565	"
.....	7.95	3.26	2.32	0.71	16.75	18.20	" "	57566	"

6 GEORGE V, A. 1916

BULLETIN No. 286—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF TORONTO—

1914.							
Jan.	2	Ground ginger	57567 J. S. Kyle, Oshawa.....	1 lb.	35	Todhunter, Mitchell Co., Toronto.	
"	2	"	57568 Engle Breslin, Oshawa...	1 "	40		Thos. Kinner & Co., Toronto.
"	2	"	57569 J. E. Beaton " ..	1 "	40	Todhunter, Mitchell Co., Toronto.	
"	2	"	57570 S. F. Coulin " ..	1 "	40		McDowell & Morns, Oshawa
"	2	"	57571 C. A. Powell " ..	1 "	40	Todhunter, Mitchell Co., Toronto	
1913.							
Dec.	26	"	57582 J. D. Cassil, 2713 Yonge st. north, Toronto.	1 "	40		Canada Brokerage Co., Ltd., Toronto.

## DISTRICT OF HAMILTON—

Dec.	2	Ground Ginger	59863 Lloyd Bros., Owen Sound	1 lb.	35		Dalton Bros., Toronto,
"	3	"	59866 J. McKibbin, Owen Sound	1 "	40		McLaughlin & Sons Co., Ltd.
"	4	"	59867 J. Kerr, Palmerston..	1 "	30		Unknown...
"	5	"	59868 John Hawkins, Guelph..	1 "	40		" ..
"	5	"	59869 J. C. Hadden, Guelph...	1 "	40		" ..
"	9	"	59870 MacQueen & Co., Paris...	$\frac{1}{4}$ "	25		Jas. Lumbers & Co., Toronto.
"	10	"	59871 David Katz, 31 Pearl st., Brantford.	1 "	25		Unknown.....
"	10	"	59872 L. J. Klinkhamer, 138 Albion st., Brantford.	1 "	30		Brantford Coffee & Spice Co., Brantford.
"	11	"	59873 Strang Bros., 238 Bay st., Hamilton.	$\frac{3}{4}$ "	25		Unknown.....
"	11	"	59874 J. Treister, 205 Caroline st., Hamilton.	1 "	25		F. F. Dalley Co., Ltd., Hamilton
"	12	"	59875 Eric Jamieson, Wilson & Fairleigh sts., Hamilton	1 "	45		McLarens, Ltd., Hamilton.
"	12	"	59876 Sanderson Bros., 603 Barton st., east, Hamilton.	1 "	40		W. H. Gillard & Co., Hamilton
"	12	"	59877 Post & Stewart, 591 Barton st., east, Hamilton.	1 "	40	Young, Windfield & Co., Hamilton	
"	10	"	59878 Geo. Diben, 482 Wentworth st., north, Hamilton.	1 "	40		G. E. Bristol & Co., Hamilton.
"	12	"	59879 G. E. Baker, 119 Barton st., east, Hamilton.	1 "	30	Young, Windfield & Co., Hamilton	



## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Moisture.	Ash.			Cold Water Extractive.				Microscopical Exam- ination.
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

Concluded.

	p. c.	p. c.	p. c.		p. c.	p. c.			
.....	7.95	3.48	2.26	0.65	16.30	17.70	Ginger tissues & starch only.	57567	Genuine.
.....	8.50	2.22	2.20	0.52	15.80	17.25	"	57568	"
Labelled, Todhunter's Pure Ginger	8.50	3.48	2.46	0.70	17.70	19.35	"	57569	"
.....	8.22	3.90	2.04	0.52	13.70	14.90	"	57570	"
.....	8.30	4.00	2.50	0.57	16.65	18.15	"	57571	"
.....	8.47	4.10	2.28	0.35	16.25	17.75	"	57582	"

## H. J. DAGER, ACTING INSPECTOR.

.....	6.97	1.98	1.28	0.65	10.10	10.85	About 35% maize starch and some wheat starch.	59865	Adulterated.
.....	7.63	4.16	2.04	0.49	11.55	12.50	Ginger tissues and starch only.	59866	
.....	7.42	5.16	2.74	0.53	15.70	16.95	"	59867	Genuine.
.....	7.20	2.94	2.02	0.69	17.50	18.85	"	59868	"
.....	7.30	2.94	2.30	0.78	18.05	19.45	"	59869	"
Select Ginger. ....	7.35	3.42	2.16	0.64	17.25	18.65	"	59870	"
.....	6.90	3.32	1.70	0.51	11.60	12.45	About 25% wheat flour.	59871	Adulterated.
.....	7.37	2.96	2.02	0.68	17.25	18.65	Ginger tissues and starch only.	59872	Genuine.
.....	7.42	3.38	2.38	0.70	16.30	17.60	"	59873	"
.....	7.25	3.50	2.00	0.57	15.80	17.05	"	59874	"
.....	8.10	4.18	2.00	0.48	12.10	13.15	"	59875	
.....	7.80	5.08	2.58	0.51	14.30	15.50	"	59876	Genuine.
.....	7.55	4.28	2.36	0.55	14.15	15.35	"	59877	"
.....	7.15	4.30	2.30	0.53	14.95	16.10	"	59878	"
.....	7.25	3.54	2.38	0.67	17.20	18.55	"	59879	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF WINDSOR—

1913.							
Dec. 12	Ground Ginger	53603	Wm. J. O'Neil, Clinton..	1 lb..	40	Todhunter & Mitchell, Toronto.	
" 12	"	53606	H. Wiltse, Clinton..	1 " ..	40	White Swan, Toronto.	
" 9	"	54456	W. R. Butcher, St. Mary's	3 pkgs	25	McLarens Ltd., Hamilton.	
" 9	"	54458	Geo. Smith, St. Mary's..	1 lb..	40	Gorman, Eckert Co., London.	
" 9	"	54460	F. W. Hutton, St. Mary's	1 " ..	40	F. F. Dalley Co., Hamilton.	
" 9	"	54461	J. P. Rogers Co., St. Mary's.	1 " ..	30	" "	
" 10	"	54467	A. G. Lloyd, Stratford...	1 " ..	40	Unknown.....	
" 10	"	54475	Walsh Bros., Stratford...	1 " ..	40	Unknown.....	
" 10	"	54478	A. Beattie & Co., Stratford.	3 pkgs	30	McLarens, Hamilton.	
" 11	"	54484	Sproat & Finnegan, Seaforth.	1 lb..	30	Gorman, Eckert Co., London.	
" 11	"	54486	R. L. Clark, Seaforth ..	2 " ..	23	" "	
" 11	"	54494	Cardno Bros., Seaforth...	1 " ..	40	" "	
" 12	"	54498	J. P. Sheppard & Co., Clinton.	1 lb..	40	" "	

## DISTRICT OF MANITOBA—

Dec. 9	Ground Ginger	53213	Campbell Bros. & Wilson, Winnipeg.	1 lb..	Nil.		
" 9	"	53214	Blue Ribbon, Ltd., Winnipeg.	1 " ..	30		
" 9	"	53215	The White Star Mfg. Co., Winnipeg.	1 " ..	14		
" 9	"	53216	Gold Standard Mfg. Co., Winnipeg.	1 " ..			
" 10	"	53218	The Jobin, Marrin Co., Ltd., Winnipeg.	1 " ..	25		
" 11	"	53219	The Todhunter, Mitchell Co., Winnipeg.	1 " ..			
" 12	"	53220	H. Thompson, 577 Sargent ave., Winnipeg.	1 " ..	30		
" 12	"	53221	Charles Bros., A65 Sargent ave., Winnipeg.	1 " ..	40		
" 15	"	53222	Horners Busy Corner, Brandon.	1 " ..	40		The Codville Co., Brandon.
" 15	"	53223	J. F. Price, Brandon ....	1 " ..	40		
" 16	"	53224	McDonald & Forman, Brandon.	1 " ..	40		Gold Standard Mfg. Co., Winnipeg.

## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.			Cold Water Extractive.				
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

## JNO. TALBOT, INSPECTOR.

	p.c.	p.c.	p.c.		p.c.	p.c.			
.....	7.57	3.38	2.50	0.74	17.60	19.05	Ginger tissues and starch only.	53603	Genuine.
.....	6.87	3.56	2.58	0.72	19.15	20.60		53606	"
Labelled, McLaren's Ginger.	7.37	4.14	2.48	0.60	16.40	17.70	"	54456	"
.....	6.90	3.82	2.64	0.69	17.40	18.70	"	54458	"
.....	7.12	3.52	2.06	0.58	14.80	15.95	"	54460	"
.....	7.00	4.30	1.98	0.47	11.80	12.70	"	54461	"
.....	6.97	3.72	2.62	0.70	17.00	18.25	"	54467	"
.....	7.00	5.20	2.90	0.56	14.90	16.05	"	54475	"
Labelled, McLaren's Invincible, Ground Jamaica Ginger.	8.02	4.60	2.26	0.49	15.60	16.95	"	54478	"
.....	7.22	4.54	2.56	0.56	15.85	17.05	"	54484	"
.....	6.95	4.02	2.44	0.61	16.40	17.65	"	54486	"
.....	7.52	3.44	2.42	0.70	16.05	17.35	"	54494	"
.....	7.40	4.90	2.58	0.53	16.45	17.75	"	54498	"

## A. C. LARIVIERE, INSPECTOR.

Royal Shield Brand	7.42	7.04	3.28	0.47	16.40	17.70	Ginger tissues and starch only.	53213	Genuine.
Blue Ribbon Brand	7.72	3.84	2.28	0.60	15.50	16.80		53214	"
.....	7.77	5.28	2.50	0.47	16.25	17.60	"	53215	"
.....	8.15	5.56	2.92	0.52	16.55	18.05	"	53316	"
Challenge Ginger..	7.92	3.66	2.40	0.65	17.20	18.65	"	53218	"
.....	7.90	3.98	2.00	0.50	13.90	15.10	"	53219	"
.....	7.75	4.14	2.22	0.53	14.95	16.20	"	53220	"
.....	7.22	5.74	2.82	0.49	15.75	17.00	"	53221	"
.....	7.75	4.32	2.32	0.54	15.20	16.50	"	53222	"
.....	8.12	3.68	2.56	0.71	18.90	20.55	"	53223	"
.....	7.95	4.92	2.18	0.44	14.70	16.00	"	53224	"

6 GEORGE V, A. 1916

BULLETIN No. 286—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MANITOBA—

1913.							
Dec. 16	Ground Ginger	53225	Sutherland & Robertson, Brandon.	1 lb...	40	.....	.....
" 18	"	53226	J. Donnelly, Norwood Grove.	1 "	40	.....	Campbell Bros., & Wilson, Winnipeg.
" 18	"	53227	W. J. Kennedy, Norwood Grove.	1 "	40	.....	.....
" 19	"	53280	E. S. Harvey, Portage Ave., Winnipeg.	$\frac{3}{4}$ "	30	.....	.....

## DISTRICT OF ALBERTA—

Dec. 1	Ground Ginger	51845	Hallier & Aldridge, Edmonton.	3 tins.	30	White Star Mfg Co., Winnipeg.	.....
" 1	"	51846	J. H. Morris & Co., Edmonton.	1 lb...	40	.....	.....
" 2	"	51847	The Acme Co., Edmonton	3 tins.	30	Gorman, Eckhart & Co., London, Ont.	.....
" 2	"	51848	A. Macdonald & Co., Edmonton.	3 "	20	White Star Mfg Co., Winnipeg.	.....
" 2	"	51849	Revillon, wholesale, Edmonton.	3 "	20	Gorman, Eckhart & Co., London, Ont.	.....
" 3	"	51850	Hudson Bay Co., Edmonton.	3 "	30	.....	Vendors.....
" 4	"	51851	Montgomery & West Wetaskiwin.	3 "	30	Georgeson & Co., Calgary.	.....
" 4	"	51852	Abousaffy & Murray, Wetaskiwin.	3 "	30	"	.....
" 5	"	51853	F. E. McLeod, Lacombe.	1 lb.	35	A. Macdonald & Co., Edmonton.	.....
" 11	"	51854	S. G. Freeze, Calgary.....	3 tins.	25	Georgeson & Co., Calgary.	.....
" 11	"	51855	Hudson Bay Co., Calgary.	3 "	25	.....	Vendors.....
" 12	"	51856	Pryce-Jones, (Canada) Ltd., Calgary.	3 "	30	Imperial Spice Co., Hamilton.	.....
" 12	"	51857	John Irwin & Co., Calgary.	1 lb.	40	Georgeson & Co., Calgary.	.....
" 12	"	51858	J. A. Nolan, Calgary.....	3 tins.	30	"	.....
" 13	"	51859	Georgeson & Co., Calgary.	3 "	30	Vendors.....	.....

## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expres- sion of Opinion.)	Results of Analysis.							Microscopical Exam- ination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.			Cold Water Extractive.					
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.				

*Concluded.*

	p. c.	p. c.	p. c.		p. c.	p. c.	Ginger tissues & starch only.	53225	Genuine.
Royal Shield Brand	8.22	5.08	2.48	0.49	15.05	16.40	" "	53226	"
	8.02	3.84	2.26	0.59	15.30	16.60	" "	53227	"
	8.17	3.98	2.08	0.52	14.00	15.25	" "	53228	"
	8.12	4.00	2.00	0.50	14.05	15.30	" "		

A. W. R. MARKLEY, INSPECTOR.

	8.15	6.88	2.60	0.38	15.20	16.55	Ginger tissues and starch only.	51845	Genuine.
	7.32	5.85	2.54	0.43	16.60	17.90	" "	51846	"
	9.42	5.04	2.76	0.55	16.30	17.95	" "	51847	"
	8.60	6.78	2.54	0.38	15.30	16.75	" "	51848	"
	9.12	5.06	2.46	0.49	15.00	16.50	" "	51849	"
	8.65	4.90	2.52	0.52	15.35	16.80	" "	51850	"
	9.17	4.70	2.08	0.44	16.55	18.20	" "	51851	"
	9.52	6.62	2.88	0.44	15.40	17.00	" "	51852	"
	7.32	5.84	1.84	0.32	14.90	16.05	" "	51853	"
	7.40	5.24	2.14	0.41	16.10	17.40	" "	51854	"
	6.85	3.74	2.50	0.67	16.65	17.85	" "	51855	"
	7.42	3.42	2.04	0.60	16.25	17.50	" "	51856	"
	7.65	5.22	2.96	0.57	16.85	18.25	" "	51857	"
	6.95	4.86	2.20	0.45	16.70	17.95	" "	51858	"
	7.25	5.16	2.46	0.48	16.30	17.55	" "	51859	"

6 GEORGE V, A. 1916

BULLETIN No. 286—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ROCKY MOUNTAINS

1913.							
Dec.	2	Ground Ginger	50001 R. G. Ritchie, Cascade, B.C.	1 lb..	40	Empress Mfg Co., Vancouver.	.....
"	4	"	50008 N. L. McInness & Co., Grand Forks, B.C.	3 tins.	45	Kelly, Douglas & Co., Vancouver.	.....
"	4	"	50017 McKim & LeRoy, Grand Forks, B.C.	3 "	40	Georgeson & Co., Calgary.	.....
"	15	"	50020 Trail Grocery Co., Trail, B.C.	1 lb..	35	Empress Mfg. Co., Vancouver.	.....
"	15	"	50026 T. Lauriente & Son, Trail, B.C.	3 tins.	40	W. H. Malkin & Co., Vancouver	.....
"	17	"	50032 Agnew & Co., Rossland, B.C.	1 lb..	35	Kelly, Douglas & Co., Vancouver.	.....
1914.							
Jan.	3	"	50047 Star Grocery, Nelson, B.C.	1 "	50	W. A. Jameson, Victoria, B.C.	.....
"	3	"	50049 Hudson's Bay Co., Nelson, B.C.	1 "	40	Wm. Braid & Co., Vancouver.	.....
"	7	"	50058 R. B. Bell, Salmo, B.C..	1 "	40	W. A. Jameson & Co., Victoria, B.C.	.....
"	"	"	50061 Salmo Trading Co., Salmo, B.C.	1 "	45	W. H. Malkin & Co., Vancouver.	.....
"	23	"	50066 S.A. Speers, Creston, B.C.	3 tins.	40	Wm. Braid & Co., Vancouver.	.....
"	23	"	50071 Creston Mercantile Co., Creston, B.C.	3 "	40	Cranbrook Jobbers Ltd., Cranbrook, B.C.	.....
"	23	"	50072 Creston Mercantile Co., Creston, B.C.	3 "	30	W. A. Jameson Coffee Co., Victoria, B.C.	.....

## DISTRICT OF VICTORIA—

1913.							
Dec.	9	Ground Ginger	57701 Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	1 lb.	50	Pioneer Coffee & Spice Mills, Victoria, B.C.	.....
"	9	"	57712 Copas & Young, 633 Fort St., Victoria, B.C.	1 "	40	Wm. Braid & Co., Vancouver, B.C.	.....
"	11	"	57717 The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	1 "	40	.....	R. P. Rithet & Co., Ltd., Victoria, B.C.
"	11	"	57723 Acton Bros., 1317 Douglas St., Victoria, B.C.	1 "	40	Empress Mfg. Co., Vancouver.	.....
"	11	"	57724 " " "	3 "	30	E. R. Durkee & Co., New York, U.S.A.	.....
"	12	"	57733 Dixie H. Ross & Co., 1317 Govt. St., Victoria, B.C.	1 "	40	Wm. Braid & Co., Vancouver, B.C.	.....

## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Moisture.	Ash.			Cold Water Extractive.				Microscopical Exam- ination.
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

## THOS. PARKER, INSPECTOR.

	p. c.	p. c.	p. c.		p. c.	p. c.			
.....	7.32	4.66	2.30	0.49	15.65	16.85	Ginger tissues and starch only.	50061	Genuine.
Nabob Brand.....	9.00	4.66	2.56	0.55	16.10	17.40	" "	50098	"
Tuxedo Brand. ..	6.62	8.20	2.72	0.33	15.65	16.75	Ginger tissues and starch only. Ash contains a large p.c. lime.	50017	"
.....	8.07	4.46	2.50	0.56	16.85	18.30	Ginger tissues and starch only.	50020	"
Victoria Cross Brand.	9.40	5.92	2.24	0.45	15.00	16.55	" "	50026	"
Columbia Brand..	7.55	5.46	2.76	0.51	14.60	15.80	" "	50032	"
.....	7.52	4.88	2.28	0.47	14.35	15.50	" "	50047	"
.....	8.22	4.84	2.30	0.48	15.35	16.75	" "	50049	"
.....	6.90	4.76	2.36	0.50	13.20	14.05	" "	50058	"
Victoria Cross Brand.	10.50	5.06	2.08	0.41	14.05	15.70	" "	50061	"
.....	8.47	4.64	1.92	0.42	15.25	16.65	" "	50066	"
Regal Brand.....	9.67	6.52	2.66	0.41	14.20	15.70	" "	50071	"
Victoria Brand...	9.65	5.34	2.44	0.46	13.35	14.75	" "	50072	"

## D. O'SULLIVAN, INSPECTOR.

.....	8.50	5.34	2.18	0.41	13.50	14.75	Ginger tissues and starch only.	57701	Genuine.
.....	7.92	5.08	2.56	0.50	14.80	16.05	" "	57712	"
.....	8.05	4.72	2.48	0.53	12.45	13.55	" "	57717	"
.....	8.20	4.80	2.52	0.53	16.70	18.15	" "	57723	Genuine.
Gauntlet Brand...	10.37	4.40	2.00	0.45	12.85	14.30	" "	57724	"
.....	7.75	5.44	2.42	0.45	14.50	15.70	" "	57733	"

6 GEORGE V, A. 1916

BULLETIN No. 286--

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VICTORIA -							
1913.							
Dec. 12	Ground Ginger	57742	James Adam, 1023 Cook St., Victoria, B.C.	1 lb.	40	Kelly Douglas & Co., Vancouver, B.C.	.....
" 16	" ..	57750	H. O. Kirkham, 741 Fort Victoria, B.C.	3 "	40	.....	Kelly Douglas & Co., Ltd., Vancouver, B.C.
" 16	" ..	57751	" " "	$\frac{3}{4}$ "	30	.....	" ..
" 17	" ..	57755	Henry W. Driver, 856 Yates St., Victoria, B.C.	$\frac{3}{4}$ "	30	.....	W. A. Jameson Coffee Co., Victoria, B.C.
" 18	" ..	57762	Fenerty Bros., Oak Bay Jct., Victoria, B.C.	1 "	40	W. A. Jameson Coffee Co., Victoria, B.C.	.....
" 31	" ..	57764	The W. A. Jameson Coffee Co., Victoria, B.C.	1 "	25	.....	G. S. Dunn & Co., Hamilton, Ont.
" 31	" ..	57766	Pioneer Coffee and Spice Mills, Victoria, B.C.	1 "	25	Vendors.....	.....
" 31	" ..	57770	C. G. Adams Co., Ltd., Douglas & Johnston Sts., Victoria, B.C.	3 tins.	30	.....	S. Lieser & Co., Ltd., Victoria, B.C.
1914.							
Jan. 2	" ..	57771	E. B. Jones, 1800 Cook St., Victoria, B.C.	3 "	30	Empress Mfg. Co., Ltd., Vancouver, B.C.	.....



## SESSIONAL PAPER No. 14

## GROUND GINGER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Moisture.	Ash.			Cold Water Extractive.				Microscopical Examination.
		Total.	Water Soluble.	Ratio.	Normal.	Calculated to dry Sample.			

*Concluded.*

	p. c.	p. c.	p. c.		p. c.	p. c.				
.....	8.25	3.80	2.08	0.55	16.35	16.70	Ginger tissues and starch only.	57742	Genuine.	"
.....	8.30	5.10	2.48	0.49	15.65	17.95	" " "	57756	"	"
Nabob Brand.....	11.10	4.26	2.42	0.57	16.00	18.00	" " "	57751	"	"
Victoria Brand...	9.60	5.74	2.64	0.46	13.70	15.15	" " "	57755	"	"
.. . . . .	8.57	4.26	2.56	0.60	16.30	17.85	" " "	57762	"	"
Cochin Ginger....	7.95	5.66	2.42	0.43	14.00	15.20	" " "	57764	"	"
Star Brand.. .. .	8.12	3.70	2.36	0.63	17.25	18.80	" " "	57766	"	"
Lord Roberts Brand, Pure.	9.30	3.76	2.32	0.62	16.10	17.75	" " "	57770	"	"
Empress Brand...	9.90	4.80	2.36	0.49	15.20	16.85	" " "	57771	"	"

## APPENDIX C.

### BULLETIN No. 287—TEA.

OTTAWA, April 29, 1914.

J. U. VINCENT, Esq., K.C.,  
Asst. Deputy Minister, Inland Revenue.

SIR,—I have the honour to hand you a report dealing with 149 samples of tea purchased throughout Canada by our inspectors in September, October and November of last year.

The last considerable investigation of this article was made in April, 1909 (Bull. 183). Previous examination of tea (see Bull. 24, June, 1891; Bull. 99, July, 1904; Bull. 130, Jan., 1907) had shown it to be so generally satisfactory in character, as to justify its being less frequently collected than other kinds of food, more prone to adulteration. The present report corroborates expectation in this regard.

Doubtless the fact that tea is subjected to careful supervision by the customs authorities at ports of entry has much to do with its generally satisfactory character.

An Order-in-Council dated September, 1894, fixes certain constants for tea.

1. ASH.—Must not exceed 8 per cent. by weight, reckoned on the dry tea.  
All samples herein reported meet this requirement.
2. WATER SOLUBLE ASH.—Must not be less than 2.75 per cent.
3. EXTRACTIVE MATTER.—Must not be less than 30 per cent. of the weight of the tea.

Most of the samples now reported yield much more than 30 per cent. extractive, many of them giving from 36 to 40 per cent.

Four samples give slightly less than 30 per cent., but come very near the minimum limit. Only one sample (No. 59706) is notably lower than 30 per cent.

Even these samples cannot be legally held to be adulterated, since the Order-in-Council does not define a method of working for extractive matters; and I have shown in Bulletin No. 183, p. 4, that different modes of extraction give such widely different results that until some well defined method is made obligatory the datum remains too uncertain to be strictly interpreted.

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Facing is indicated in 13 samples, but is so slight as to be disregarded from the point of view of harmfulness.

On the whole, this report may be taken to prove that there is no note-worthy adulteration of tea in Canada.

I beg to recommend its publication as Bulletin No. 287.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst.*

## BULLETIN No. 287—TEA.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.		Microscopical Examinations.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Total.	Ash.			
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.													
1913.									p. c.	p. c.			
Oct. 13	Tea. . .	54326	Cain Bros., month, N.S.	Yar-1 lb..	30	Unknown . . .	Cox & Graham, Halifax, N. S.	India & Ceylon Blend	5.55	3.40	Tea Tissues, . .	54326	
" 15	"	54327	Roach & Barleaux, Annapolis, N. S.	1 "	30	"	"	Tip Top Brand.....	5.55	3.30	"	54327	
" 16	"	54328	S. L. Cross, Kentville, N. S.	Kent-1 "	30	"	Jno. Tobin & Co., Halifax, N. S.	Rakawanna, taken from bulk.	5.85	3.40	"	54328	
" 16	"	54329	B. H. Dodge & Co., Kentville, N. S.	Co. 1 "	30	"	T. H. Esterbrook, St. John, N. B.	Red Rose Brand ..	5.30	3.15	"	54329	
" 16	"	54330	Schand Bros., Windsor, N. S.	Win-1 "	30	"	J. E. Morse Co., Halifax, N. S.	Empire taken from bulk.	5.90	3.40	"	54330	
" 16	"	54331	Canada Food Co., Windsor, N. S.	Co. 1 "	30	"	"	Standard Brand.....	5.60	3.25	"	54331	
" 16	"	54332	John Lynch & Son, Windsor, N. S.	Son, 1 "	40	"	Jno. Tobin & Co., Halifax, N. S.	Rakawanna	5.25	3.25	"	54332	
" 23	"	54333	Wentzells, Ltd., Windsor, N. S.	Ltd., 1 "	25	"	Jos. Bellemare, Agent, Halifax, N. S.	Taken from bulk.....	5.65	3.50	"	54333	
" 23	"	54334	E. W. Crease & Son, Windsor, N. S.	Son, 1 "	30	"	J. S. Morse & Co., Halifax, N. S.	Bar None Brand, taken from bulk.	5.45	3.20	"	54334	
" 23	"	54335	Ritecy & Corkum, Windsor, N. S.	Corkum, 1 "	30	"	Bryant & McDonald, Halifax, N. S.	Three Crown Brand.	5.50	3.25	"	54335	

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

## SESSIONAL PAPER No. 14

## DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Sept.	22	Tea.....	50337	H. W. Cole, Ltd., St John, N.B.	60	Vendors .....	.....	Ramgalla Brand, packaged by Ven- dors	5-25 3 10 35 3	Tea Tissues...	50337
"	22	"	50338	W. F. Hatheway Co., Ltd., St. John, N.B.	40	"	.....	Tiger C. Brand, im- ported from Cey- lon, India.	5-60 3 30 32 0	"	50338
"	22	"	50339	W. A. Simonds, St. John, N.B.	60	.....	P. Larkin Co., Montreal.	Salada Brand, Black Ceylon.	5-25 3 20 37 7	"	50339
"	25	"	50340	G. E. Barbour Co., Ltd., St. John, N.B.	34	Vendors .....	.....	King Cole Brand, India and Ceylon.	5-40 3 20 38 1	"	50340
"	25	"	50341	T. H. Esterbrooks Co., Ltd., St. John, N.B.	45	"	.....	Red Rose Brand, India & Ceylon.	5-65 3 15 37 4	"	50341
Oct.	8	"	50342	Fred E. Rose, St. Ste- phen, N.B.	40	.....	W.C. Pervis, St. Stephen, N.B.	Oolong Tea.	5-70 3 10 36 8	"	50342
"	15	"	50343	J. Rankin Brown, Woodstock, N.S.	50	.....	J. E. Barbour Co., Ltd., St. John, N.B.	"	5-80 3 15 32 7	"	50343
"	21	"	50344	Sussex Mercant. Co., Ltd., Sussex, N.B.	35	.....	C. H. McDonald, St. John, N.B.	Black Tea, China	6-25 3 10 37 1	"	50344
"	22	"	50345	D. A. McBrath, Moncton, N.B.	50	.....	"	Oolong x x x	6-00 3 50 39 4	"	50345
"	23	"	50346	J. B. Snowball Co., Ltd., Chatham, N.B.	30	.....	Barbridge, Pri- chard & Bart- lett, London, England.	Blended Black Tea	5-55 3 55 39 6	"	50346

## DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.

Sept.	23	Tea	50119	G. Papin, 132 Rue 1 lb. Massue, Quebec.	40	Unknown	Turot & Cie., Quebec.	.....	6-60 3 10 40 7	Tea Tissues...	50119
"	24	"	50120	O. Bazou, 28 Rue 1 Hermine, Quebec.	50	"	Langlois & Par- adis.	.....	5-25 3 45 36 0	"	50120
"	26	"	50121	Ph. Bonlé, Grant & Desfossez, Quebec.	20	"	Unknown	.....	5-70 3 00 29 5	"	50121
"	26	"	50122	W. Dubé, 31 Rue 1 Lalbert, Quebec.	20	"	J. B. Renaud & Cie.	.....	6-15 3 55 33 3	"	50122
"	29	"	50123	J. A. Talbot, 410 Rue 1 de la Reine, Quebec.	20	"	Unknown	.....	5-65 2 80 29 6	"	50123
"	29	"	50124	Elz. Couture, 124 1 Rue Caron, Quebec.	20	"	"	.....	5-15 2 85 29 5	"	50124
"	29	"	50125	G. W. Turot, 92 Rue 1 Caron, Quebec.	20	"	Turot & Frere.	.....	7-10 2 80 30 3	" Facing eaten.	50125

Extractive  
slightly lowExtractive  
slightly low.

## BULLETIN No, 287—TEA.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report, (Is not an expression of Opinion.)	Results of Analysis.		Microscopical Examinations.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Quantity.	Cents.			Total.	Ash.			

DISTRICT OF QUEBEC—F. X. W. E. BELAND INSPECTOR—*Concluded.*

1913.	Sept. 29	Tea	.....	56126	Mad. T. Dubuc, 131 1/2 lb., Rue Clarendon, Que- bec.	20	Unknown ....	J. B. Renaud & Cie.	.....	6.75 3.20 29.8	Tea Tissues. Facing indi- cated.	56126	Extractive slightly low.
"	29	"	.....	56127	Emile Jalbert, 161 " Rue D'Orchester, Quebec.	30	Larkin Co., Mfrs., Montreal.	.....	.....	5.25 2.95 35.8	Tea Tissues. Facing indi- cated.	56127	
"	29	"	.....	56128	J. F. Gosselin, 50 Rue 1 D'Orchester, Que- bec.	35	Unknown ....	Quebec Preserv- ing Co.	.....	6.50 2.95 30.5	" Facing indi- cated.	56128	

## DISTRICT OF THREE RIVERS—DR V. P. LAVALLÉE, INSPECTOR.

Sept. 17	Tea	.....	59701	P. A. Guibault, St. 1 lb., Norlet.	15	.....	Chevalier & Pon- cet, Joliette.	.....	.....	6.00 3.10 32.2	Tea Tissues...	59701
"	18	"	.....	59702	J. O. Daviau, Berth-1 " ville.	25	.....	W. D. Stroud, Montreal.	.....	6.75 2.90 30.8	"	59702
"	18	"	.....	59703	A. Le Caisse, Berth-1 " ville.	35	.....	"	.....	5.95 2.90 36.0	Facing indi- cated.	59703
"	19	"	.....	59704	O. Paquette, Berth-1 " ville.	20	.....	Hudon Hebert, Montreal.	.....	6.90 2.80 31.0	"	59704
"	19	"	.....	59705	J. A. Laporte, 1 " Bertherville.	20	.....	J. V. Boudrias, Montreal.	.....	7.40 3.00 30.1	Tea Tissues...	59705
"	20	"	.....	59706	J. S. Bayeur, Berth-1 " ville.	20	.....	"	.....	6.85 2.85 29.0	"	59706
											Facing indi- cated.	Extractive low.

## SESSIONAL PAPER No. 14

## DISTRICT OF EASTERN TOWNSHIPS—J. C. ROULEAU, INSPECTOR.

"	22	"	59707	G. H. Read, St. Felix de Valois.	30	L. Chaput & fils, Montreal.	5-60 3-00 38-4	Tea Tissues.	59707
"	22	"	59708	Louis Fries, St. Felix de Valois.	35	Chevalier & Pouliot, Joliette.	6-35 3-15 39-7	"	59708
"	24	"	59710	Camille Barrette, Joliette.	35	Kearney Bros., Montreal.	5-55 3-05 30-5	"	59710
"	24	"	59753	Magnan Freres, Joliette.	40	Chevalier & Pouliot, Joliette.	5-45 3-55 39-1	"	59753

Sep.	29	Tea	1701	J. A. Houle, Victoriaville.	40	Unknown	H. H. Gray, Ltd., Victoriaville.	Japan Tea.	5-15 3-15 36-9	Tea Tissues.	1701
"	30	"	1702	Jas. Masson, Victoriaville.	25	Unknown	Unknown	Green Tea.	5-60 3-25 36-6	"	1702
"	30	"	1703	P. J. Girard, Victoriaville.	40	Unknown	Hudon, Hebert & Cie, Montreal.	"	5-30 3-25 39-2	"	1703
Oct.	2	"	1704	J. O. McDonald, Victoriaville.	35	Unknown	Forbes Bros., Montreal.	Japan Tea.	6-15 3-55 37-7	"	1704
"	3	"	1705	P. A. Barbeau, Victoriaville.	35	Unknown	Unknown	Black Tea.	4-45 3-05 33-4	"	1705
"	6	"	1706	Isidore Chabot, Victoriaville.	30	"	"	Green Salada.	5-10 2-85 38-7	"	1706
"	7	"	1707	J. B. Paradis & fils, Victoriaville.	30	Unknown	Blue Ribbon Tea Co., Montreal.	Black, Blue Ribbon.	5-40 2-95 31-2	"	1707
"	7	"	1708	W. M. Price & Son, Victoriaville.	30	Unknown	P. C. Larkin & Co., Montreal.	Green Salada.	4-55 2-95 37-7	"	1708
"	9	"	1709	Taylor & Poirier, Victoriaville.	30	Unknown	J. Rutherford & Co., Montreal.	Green Ceylon.	6-40 2-80 40-2	"	1709
"	10	"	1710	R. E. Bertrand, Victoriaville.	30	Unknown	P. C. Larkin & Co., Montreal.	Black Salada.	5-00 2-95 37-9	"	1710

## DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

Nov.	3	Tea	58601	Veronneau & Javal, Lachine, P. Q.	25	Unknown	Gustave Racine.	5-55 2-80 31-1	Tea Tissues.	58601
"	3	"	58602	Camille Richer, Lachine, P. Q.	40	Unknown	Hudon, Hebert.	5-25 3-20 35-3	"	58602
"	3	"	58603	A. Allard, Lachine, P. Q.	30	Unknown	Minto Bros., Toronto.	5-45 3-30 34-0	"	58603
"	3	"	58604	James Duncan, Lachine, P. Q.	45	Unknown	James Marshall.	4-05 3-30 36-7	"	58604
"	3	"	58605	Mrs. H. Deslauriers, Lachine, P. Q.	40	Unknown	L. Chaput fils & Cie.	6-20 3-50 36-2	"	58605
"	4	"	58606	A. Jean, 471 Charles, Lachine, P. Q.	40	Unknown	Laporte, Martin & Cie.	5-45 2-80 34-2	"	58606

## BULLETIN No. 287—TEA.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report (Is not an Expression of Opinion.)	Results of Analysis.			Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
								Total.	Ash.	Water Soluble.			

## DISTRICT OF MO TREAL—D. J. KEARNEY, INSPECTOR—Concluded.

1913.								p. c.	p. c.	p. c.			
Nov. 12	Tea	C. Garmain, 1450 1 lb. West Notre Dame St.,	40					5.95	3.35	32.5	Tea Tissues..	58607	
" 12	"	T. Leveigne, 359 Char-1 levoix St.	40					5.75	4.15	37.0	"	58608	
" 18	"	S. C. Price & Co., 1 215 Church St., Verdun.	30					6.10	3.20	35.0	"	58609	
" 18	"	J. Dubude, 1151 Wel-1 ington St., Verdun	35					6.30	3.10	31.8	"	58610	

## DISTRICT OF VALLEYFIELD—J. J. COSTIGAN, ACTING INSPECTOR.

Oct. 30	Tea	James Brown, Hunt-1 ington, P. Q.	30					5.70	3.70	34.0	Tea Tissues..	58501	
" 30	"	" " " "	30					6.35	3.00	38.3	"	58502	
" 30	"	E. C. McCoy, Hunt-1 ington, P. Q.	30					4.85	2.75	38.3	"	58503	
" 30	"	" " " "	30					6.95	2.90	31.4	"	58504	
Nov. 7	"	H. Clapgood, St.1 Johns, P. Q.	35					6.20	3.50	36.9	Pacing indi- cated. Tea Tissues..	58505	
" 7	"	" " " "	35					6.50	3.45	30.6	"	58506	



## SESSIONAL PAPER No. 14

## DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

"	7	"	58507	Simard, Brossard & Co., St. John, P.Q.	30	Black	6-25 3-45 30-6	"	58507
"	7	"	58508	"	35	Green	6-20 2-75 41-4	"	58508
"	7	"	58509	J. A. Barady, St. John, P.Q.	40	"	6-50 2-90 38-6	"	58509
"	7	"	58510	"	35	Black	5-75 3-15 33-7	Facing indigatred. Tea Tissues...	58510
Sept.	17	Tea	59176	N. Dean & Sons, Renfrew.	30	Geo. Robertson & Son, Kingston.	5-75 3-45 36-8	Tea Tissues...	59176
"	20	"	59177	Alex. Sibbitt, Carleton Place.	25	Geo. Foster & Son, Brantford.	5-75 2-85 42-0	"	59177
"	20	"	59178	R. S. Drachman, Carleton Place.	30	Stroud, Mont- real.	5-85 3-60 36-5	"	59178
"	23	"	59179	Scott Bros., Pakenham.	30	Jno. Duncan & Co., Montreal.	5-75 3-80 40-1	"	59179
"	30	"	59180	McDonald Bros., Gladstone ave., Ottawa.	30	T. H. Estabrooks Co., Ltd., St. John, N. B.	5-50 3-35 35-8	"	59180
"	30	"	59181	M. Greenberg, Bank st., Ottawa.	40	Unknown	{ " " " " } 5-40 3-30 38-6	"	59181
Oct.	1	"	59182	Doyle Bros., Pre- scott.	30	Gilmour & Co., Brockville.	5-75 3-35 39-4	"	59182
"	1	"	59183	John Whitley, Pre- scott.	40	Jno. Duncan, Montreal.	5-90 3-25 40-2	"	59183
"	3	"	59184	J. H. May, 171 Lyon st., Ottawa.	30	Provost & Allard, Ottawa.	{ " " " " } 5-40 3-50 40-5	"	59184
"	3	"	59185	Gloucester Trading Co., Rideau st., Ottawa.	50	Ridgways, Ltd., London Eng.	5-70 3-60 35-6	"	59185

## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Sept.	22	Tea	60001	Thompson Bros., Belleville.	40	R. B. Hayhoe, Toronto.	5-20 3-20 36-2	Tea Tissues...	60001
"	22	"	60002	A. G. Vermilyea, Belleville.	30	Geo. Robertson & Sons, Kingston.	5-50 3-25 34-6	"	60002
"	22	"	60003	F. Q. Diamond, Belleville.	30	R. B. Hayhoe, Toronto.	6-00 3-50 36-4	"	60003
"	23	"	60004	Thos. McIntosh, Cobourg.	30	"	4-20 2-45 39-5	"	60004

## BULLETIN No. 287—TEA.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.		Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Total.	Ash.			

## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR—Concluded.

1913.													
Sept. 23	Tea	60005	M. C. Nichols, Cobourg.	1 lb.	30		R. B. Hayhoe, Toronto.			p. c. p. c.	p. c.		
" 23	"	60006	The Thompson Macdonald, Co., Cobourg.	1 "	30		Perkins Inc Co., Peterboro.			5.25 2.90	36.4	Tea Tissues...	60005
" 23	"	60007	S. Sweeney, Port Hope.	1 "	30		T. Kinner, Tor- onto.			5.25 2.90	35.4	"	60006
" 23	"	60008	F. H. Brown, Port Hope.	1 "	30		Balfour & Mc- Lain, Hamilton			6.15 3.40	36.6	"	60007
" 24	"	60009	P. S. White, Peter- boro.	1 "	30		R. B. Hayhoe, Toronto.			5.30 3.15	35.0	"	60008
" 24	"	60010	G. A. Gillespie, Peterboro.	1 "	30		"			5.45 3.45	30.3	"	60009
										5.50 3.45	35.8	"	60010

## DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Sept. 22	Tea	57501	A. Smith, 244 Green- wood ave., Toronto	1 lb.	40		Minto Bros., Toronto.	Green Tea		4.30 3.50	38.7	Tea Tissues...	57501
" 22	"	57502	Duckworth Produce Co., 813 Dundas st., Toronto.	1 "	30		Medland Bros., Toronto.	Black Tea		5.55 3.05	35.9	"	57502
" 22	"	57503	R. M. Canfield, 402 2 <sup>nd</sup> Roncesvalles st., Toronto.	30			Jno. Sloan & Co., Toronto.	" Ceylon).	(Salada	5.30 3.00	38.1	"	57503

## SESSIONAL PAPER No. 14

"	23	"	57504	W. R. Stock, 696-1 Dufferin st., Tor- onto.	30	"	Green Tea.....	5-10-2-80-38-0	"	.....	57504
"	23	"	57505	D. Maxwell, 703 Os- ington ave., Tor- onto.	30	N. M. Squire & Co., Toronto.	"	5-45-3-30-35-8	"	.....	57505
"	23	"	57506	F. H. Ross, 1049-1 Slaw st., Toronto.	25	Unknown	Black Tea.....	5-45-3-15-37-2	"	.....	57506
"	23	"	57507	W. Truman, 144-1 Clinton st., Tor- onto.	30	R. B. Hayhoe Co., Toronto.	"	5-85-3-35-35-7	"	...	57507
"	24	"	57508	R. E. McKendry, 1 176 Bellwood ave., Toronto.	40	East India Tea Co., Toronto.	"	5-00-3-15-39-7	"	.....	57508
"	24	"	57509	G. & A. Finn, 991 Grange ave., Tor- onto.	40	R. B. Hayhoe Co., Toronto.	Green Tea.....	5-70-3-05-36-7	"	.....	57509
"	24	"	57510	V. Cosentine, 2 Bald- win st., Toronto.	25	Unknown	"	5-65-3-10-33-6	"	.....	57510

## DISTRICT OF HAMILTON—J. J. COSTIGAN, ACTING INSPECTOR.

Oct.	2	Tea.....	50856	P. Haggy, Colborne 1 st., Brantford, Ont	30	"	Ceylon Green Blend. 6-30-2-85-36-3	Tea, Facing indi- cated.	.....	50856
"	2	"	50857	F. C. Harpe, 104 Dal- housie st., Brant- ford, Ont.	30	"	Black Tea.....	5-85-3-50-34-9	"	50857
"	2	"	50858	"	30	"	Japan ".....	5-10-3-05-37-0	Tea Tissues...	50858
"	2	"	50859	George Cooper, 135-1 Market st., Brant- ford, Ont.	30	"	" ".....	5-65-2-45-40-4	"	50859
"	3	"	50860	Henry & Glackin, 1 Church st., St. Cat- herines, Ont.	30	"	Black ".....	5-75-3-00-36-6	"	50860
"	3	"	50861	"	25	"	Japan ".....	5-75-3-40-32-8	" Facing indi- cated.	50861
"	3	"	50862	F. R. Hare, 97 Gen- eva st., St. Cath- erines, Ont.	30	"	Green ".....	6-05-2-75-32-7	Tea Tissues...	50862
"	3	"	50863	R. H. Watson, 168-1 Church st., St. Cat- herines, Ont.	30	"	Japan ".....	5-90-3-45-35-9	"	50863
"	3	"	50864	F. A. Wilson, 33-1 Queen st., St. Cat- herines, Ont.	40	"	Gunpowder Tea.....	6-75-3-10-32-2	"	50864

## BULLETIN No. 287—TEA.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.			Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Total.	Water Soluble.	Ash.				
DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.															
1913.															
Oct.	8 Tea .....	54405	R. Stirrett Co., Petrolia.	Pet-1 lb..	30	Unknown .....	.....	.....	p. c. p. c. p. c.	6.35 3.35 37.6	Tea Tissues...	54405			
"	" 8 .....	54408	Fred. Searsbrook, Petrolia.	" "	25	.....	Balfour & Mc-	.....	5.30 3.25 36.7	" "	" "	54408			
"	" 8 .....	54409	C. Maaston, Petrolia.	" "	30	Unknown .....	.....	.....	5.90 3.10 36.2	" "	" "	54409			
"	" 8 .....	54410	J. Pitman, Petrolia.	" "	40	P. C. Larkin Co., Toronto	.....	.....	5.00 2.95 37.1	" "	" "	54410			
"	" 9 .....	54431	A. H. Gannon & Son.	" "	35	.....	Balfour & Mc-	.....	5.60 3.25 38.0	" "	" "	54431			
"	" 9 .....	54433	Jas. Galbraith, Sarnia.	" "	30	.....	Laren, Hamil-	.....	6.25 2.80 39.7	" "	" "	54433			
"	" 10 .....	54435	Gill Bros., Strathroy.	" "	30	.....	A. M. Smith & Co., London.	.....	6.35 2.90 37.9	" "	" "	54435			
"	" 10 .....	54437	E. Gallagher, Strathroy.	" "	40	Unknown .....	T. H. Estabrook, Toronto.	.....	6.10 3.45 42.3	" "	" "	54437			
"	" 10 .....	54438	W. G. Meekington, Strathroy.	" "	40	.....	T. H. Estabrook, Toronto.	.....	5.50 3.30 39.3	" "	" "	54438			
"	" 10 .....	54439	R. H. Davis, Strathroy.	" "	30	.....	Elliott, Marr & Co., London.	.....	5.50 3.00 38.3	" "	" "	54439			

## SESSIONAL PAPER No. 14

## DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

Sept. 30	Tea	48961	H. A. Bell, 817 Sherbrooke, Winnipeg.	1 lb. . . . . 35	Unknown . . . . .	Unknown . . . . .	6-10 3-65 36-5	Tea Tissues. . . . .	48961
"	"	48962	Gry Tea & Coffee Co., 624 Ellice St., Winnipeg.	1 " . . . . 30	" . . . . .	" . . . . .	5-50 3-10 33-7	" . . . . .	48962
"	"	48963	The Blue Ribbon Co., Winnipeg.	1 " . . . . 30	Vendors . . . . .	" . . . . .	5-75 3-40 37-1	" . . . . .	48963
Oct. 1	"	48964	F. Abbott, Kildonan West, Winnipeg.	1 " . . . . 20	T. H. Easterbrook & Co., Limited, St. John, Que.	Red Rose Tea. . . . .	5-95 3-75 37-0	" . . . . .	48964
"	"	48965	Green & Co., Kildonan West, Winnipeg.	1 " . . . . 40	" . . . . .	Campbell Bros. & Wilson, Winnipeg.	5-05 3-00 36-6	" . . . . .	48965
"	"	48966	Stanleys, 1623 Logan Ave., Weston, Winnipeg.	1 " . . . . 35	" . . . . .	" . . . . .	Imported by Farmers.	" . . . . .	48966
"	"	48967	Dungan & Hunter, 543 Logan Ave., Winnipeg.	1 " . . . . 35	" . . . . .	" . . . . .	" . . . . .	" . . . . .	48967
"	"	48968	J. B. Bell, Logan Ave., Winnipeg.	1 " . . . . 40	" . . . . .	" . . . . .	5-55 3-55 35-0	Tea Tissues, Packing included.	48968
"	"	48969	Walker, 413 Logan Ave., Winnipeg.	1 " . . . . 40	" . . . . .	The Cordville Co., Winnipeg.	5-80 4-00 37-8	Tea Tissues. . . . .	48969
"	"	48970	Freeman Grocery Store, 414 Bannerman, Winnipeg.	1 " . . . . 40	T. H. Easterbrook & Co., Limited, St. John, Que.	" . . . . .	5-75 3-53 33-6	" . . . . .	48970
"	"					Red Rose Tea. . . . .	5-30 2-95 36-7	" . . . . .	

## DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

Oct. 2	Tea . . .	49951	Bell Trading Co., Nelson B.C.	1 " . . . . 50	G. F. & J. Galt, Winnipeg.	Blue Ribbon Tea. . . . .	5-80 3-50 38-5	Tea Tissues. . . . .	49951
"	"	49952	" " " "	1 " . . . . 50	Ridgways Ltd., London, Eng.	Old Country Tea . . . .	6-00 3-75 34-8	" . . . . .	49952
"	"	49953	" " " "	1 " . . . . 60	Kelly Douglas & Co., Vancouver, B.C.	Nabob Green Label Tea. . . . .	5-70 3-40 36-3	" . . . . .	49953
"	"	49954	" " " "	1 " . . . . 50	Jos. Tedley & Co., London, Eng.	" " " "	5-95 3-30 34-7	" . . . . .	49954
"	"	49978	Trites Wood Co., Fernie, B.C.	1 " . . . . 50	W. H. H. Mallin & Co., Vancouver, B.C.	Victoria Cross Tea. . . .	5-70 3-40 37-2	" . . . . .	49978

## BULLETIN No. 287—TEA.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.			Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.				Total.	Water Soluble.	Ash.			

## DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR—Concluded.

1913.												
Oct. 17	Tea	49979	Trites Wood Co., Fort- nite, B. C.	40	Salada Tea Co. Toronto.	Salada Tea	5-45-3-10	37-6	Tea Tissues	49979		
" 17	"	49980	"	60	Jos. Tetley & Co., London, Eng.	Golden Tips Tea	5-20-2-85	35-8	"	49980		
" 17	"	49981	"	45	G. F. & J. Galt Vancouver, B. C.	Silver Spoon Tea	5-10-3-20	38-6	"	49981		
Nov. 3	"	49994	Union Co-op. Associ- ation, Rosland, B. C.	50	Brooke Bond & Co., Whit- nipeg.	Brooke Bond Tea	5-50-3-30	35-6	"	49994		
" 3	"	49995	"	60	Thos. J. Lip- ton, Toronto	Blend A. Tea	5-85-3-30	35-5	"	49995		

## DISTRICT OF VICTORIA—D. OSULLIVAN, INSPECTOR.

Oct. 29	Tea	57675	Windsor Grocery Co., 817 Govt. St., Victoria, B. C.	40	Simon, Leiser & Co., Vic- toria, B. C.	Monson Indo-Ceylon	5-90-3-30	36-1	Tea Tissues	57675		
" 29	"	57676	"	50	Win. Braid & Co., Van- cover, B. C.	Braid's Best Ceylon	5-50-3-25	35-0	"	57676		
" 29	"	57679	The West End Gro- cery Co., Ltd., 1002 Govt. st., Victoria, B. C.	60	Salada Tea Co., Toronto.	Salada Black Tea	5-25-2-90	37-2	"	57679		

## SESSIONAL PAPER No. 14

"	"	57680	"	"	1	"	40	.....	G. & J. Galt, Winnipeg and Vancouver, B.C.	Blue Ribbon White Label.	5-85 3-35 38-2	"	..	57680
"	29	57683	Feeney Bros., Oak Bay Jet., Victoria, B.C.	"	1	"	50	.....	W. A. Jamieson Coffee Co., Victoria, B.C.	Kook-I-Noor Brand.	5-50 2-30 35-0	"	..	57683
"	29	57684	"	"	1	"	50	.....	"	Feeney's Special Blend Ceylon and Indian, Deckayulle.....	6-20 3-65 37-6	"	..	57684
"	29	57685	James Adam, Cook and Mears Victoria, B.C.	"	1	"	50	.....	W. H. Malkin Co., Ltd., Van- couver, B.C.	.....	5-69 3-50 38-3	"	..	57685
"	29	57686	"	"	1	"	50	.....	R. P. Rithet & Co., Vic- toria, B.C.	Venice Garden Tea	5-75 3-55 37-3	"	..	57686
Nov.	5	57691	H. O. Kirkham, 741 Fort st., Victoria, B.C.	"	1	"	50	.....	Kelly, Douglas & Co., Ltd., Vancouver.	Reception.....	5-60 3-40 36-9	"	..	57691
"	"	57692	Copas & Young, Fort and Broad sts., Victoria, B.C.	"	1	"	35	.....	W. H. Malkin Co., Ltd., Van- couver.	Anti-Combine .....	5-50 3-35 35-7	"	..	57692





**APPENDIX D.****BULLETIN No. 238—CONFECTIONERY.**

OTTAWA, June 11, 1914.

GEO. W. TAYLOR, Esq.,  
Acting Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report dealing with 174 samples of confectionery (candy) purchased by our inspectors in June, July and August of last year.

These have been specially examined with regard to the presence of Arsenic, which may enter into the composition of candies either through the dye-stuffs with which they are coloured, or the glucose which is largely used in their manufacture.

It is satisfactory to know that in no case has arsenic been found in these samples' beyond such minute traces as are entirely harmless.

Some other work has been done upon these samples, and is reported herein ; but it was not considered necessary to make complete analysis of them. The Cane Sugar reported has regard to that found as Cane Sugar in the product ; and is not to be mistaken as indicating the amount of Cane Sugar used in their manufacture. Much of this is necessarily converted into invert sugar in process of manufacture, and this is particularly the case where acid ingredients are employed.

The figures introduced into this report will be made use of in future work upon confectionery if it should be found necessary to investigate in detail the composition of the article.

I beg to recommend publication of this report as Bulletin No. 238.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

6 GEORGE V, A. 1916

BULLETIN No. 288—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1913.							
July	9	Confectionery.	54152 F. H. Woolworth Co., Halifax, N.S.	1½ lb.	30	Moirs, Ltd., Hal- ifax, N.S.	Manufacturers..
"	9	"	54153 " "	1½ "	23	" " "	"
"	9	"	54154 " "	1½ "	15	" " "	"
"	9	"	54155 Moirs, Ltd., Halifax, N.S.	1½ "	15	Vendors.....	"
"	9	"	54156 " "	1½ "	23	"	"
"	9	"	54157 " "	1½ "	45	"	"
"	9	"	54158 " "	1½ "	30	"	"
"	14	"	54159 H. H. Brown Estate, Halifax, N.S.	1½ "	27	C. J. Hamilton & Sons, Pictou, N.S.	Manufacturers..
"	14	"	54160 G. J. Hamilton & Sons, Halifax, N.S.	1½ "	15	" " "	"
"	14	"	54161 " "	1½ "	12	" " "	"

## DISTRICT OF NORTHERN NOVA SCOTIA AND CAPE BRETON—

Aug.	8	Confectionery.	53715 Mason & Co.....	1 lb..	10	G. J. Hamilton, Pictou, N.S.....	.....
"	8	"	53716 J. D. Speardukes.....	1 " ..	10	.....	.....

## DISTRICT OF NEW BRUNSWICK—

June	20	Confectionery.	50642 W. A. Simonds, St. John, N.B.	1½ lb.	15	McCormick Mfg. Co., London, Ont.	.....
"	24	"	50643 2 Barkers, Ltd., St. John, N.B.	1½ "	15	Vendors.....	.....
"	26	"	50644 The Corona Co., Ltd., St. John, N.B.	1½ "	27	"	.....
"	27	"	50645 Emery Bros., St. John, N.B.	1½ "	15	Ganong Bros., St. Stephen, N.B.	.....
July	8	"	50646 Geo. F. Wilkes, Frederic- ton, N.B.	1½ "	15	The White Candy Co., St. John, N.B.	.....
"	9	"	50647 Yerxa Grocery, Wood- stock, N.B.	1½ "	15	The Mooney Bisc- cuit & Candy Co., Ltd., Mon- treal.	.....
"	22	"	50648 Sussex Mercantile Co., Ltd., Sussex, N.B.	1½ "	23	Ganong Bros., St. Stephen, N.B.	.....
"	22	"	50649 J. A. Davidson, Sussex, N.B.	1½ "	18	Hamm Bros., St. John, N.B.	.....
"	24	"	50650 James Mailer, Newcastle, N.B.	1½ "	38	G. J. Hamilton & Sons, Pictou, N.S.	.....
"	24	"	50651 Y. Yan Kelvitz, Chatham, N.B.	1½ "	25	Bidens, Ltd., Am- herst, N.S.	.....

## SESSIONAL PAPER No. 14

## CONFECTIONERY.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					Remarks.	No. of Sample.
	Moisture.	Sugar Calculated on Sample.		Cane Sugar by Clerget's Formula.	Arsenic.		
		Polarization of a 10% Solution in 2 dm. tube.					
		Direct.	Invert.				

## R. J. WAUGH, INSPECTOR.

	p.c.			p.c.			
Oriental. ....	10.7	+13.75	0.0	26.44	None.	Starch present. . .	54152
Jelly Beans. ....	4.3	+50.5	+31.8	35.63	"	.....	54153
Mixed Humbugs. ....	3.9	+43.0	+3.0	78.39	"	.....	54154
Anised Gum Drops. ....	8.9	+50.8	+33.2	34.48	"	.....	54155
Wintergreen Wafers. ....	0.7	+39.0	-11.0	98.39	"	.....	54156
Satins. ....	2.9	+45.3	+9.0	71.14	"	.....	54157
Mixed Lumps. ....	2.4	+42.7	+2.4	78.96	"	.....	54158
Sunbeam Mixture. ....	2.6	+39.0	+1.0	74.47	"	.....	54159
Peppermint Lozenges. ....	1.0	-42.0	-4.0	90.14	"	.....	54160
Peerless Mixture. ....	2.2	+42.8	0.0	83.87	"	.....	54161

## MOSES DELOREY, INSPECTOR.

.....	2.6	+46.0	+8.0	74.46	None.	.....	53715
.....	9.4	+48.0	+24.0	47.04	"	.....	53716

## J. C. FERGUSON, INSPECTOR.

Jolly Mixed. ....	2.2	+45.9	+6.0	78.18	None.	.....	50642
Hard boiled mixture composed of sugar and glucose. ....	2.5	+42.5	+4.0	75.45	"	.....	50643
.....	0.7	+40.7	+4.4	71.14	"	.....	50644
.....	2.5	+45.7	+6.4	77.01	"	.....	50645
Royal. ....	2.1	+42.5	+0.8	81.72	"	.....	50646
Hard mixture. ....	2.6	+42.7	+4.6	74.67	"	.....	50647
Conversation Lozenges. . . .	1.0	+37.0	-4.0	80.34	"	.....	50648
Merchants Mixed. ....	1.9	+41.0	-8.0	96.02	"	.....	50649
Special Merchants Mixed. ....	1.2	+42.8	-0.2	84.27	"	.....	50650
" " . . . . .	3.0	+45.0	+5.0	78.39	"	.....	50651

6 GEORGE V, A. 1916

BULLETIN No. 288—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF QUEBEC—

1913.							
June 17	Confectionery.	37085	Jos. Trambly, Charlebourg	1½ lb.	15	Viau Frère, Montreal.	A. B. Dupuis, Quebec.
" 18	" ..	37086	T. Goudreault, Limoilou.	1½ "	15	Unknown....	Laframboise, Quebec.
" 18	" ..	37087	" ..	1½ "	23	" ..	Emond & Morin, Quebec.
" 19	" ..	37088	Louis Vericauld, Limoilou.	1½ "	15	" ..	W. Lafontaine & Cie.
" 19	" ..	37089	G. Lapointe, Limoilou ..	1½ "	15	" ..	Dufresne, Trois-Rivières.
" 20	" ..	37090	Gaudios Moreau, Limoilou.	1½ "	15	Nadeau & Cie, Limoilou.	Manufacturers..
" 23	" ..	37091	Hamel & Bedard, 728 Rue St. Joseph, Quebec.	1½ "	15	G. J. J. Hamilton & Son, Pictou, N.S.	" ..
" 23	" ..	37092	Hamel & Bedard, 728 Rue St. Joseph, Quebec.	1½ "	15	A. B. Dupuis, Quebec.	" ..
" 28	" ..	37093	Arthur Rinfret, 414 Rue St. Joseph, Quebec.	1½ "	14	Laings & Co., Montreal.	" ..
" 28	" ..	37094	Cantin & Frère, Rue St. Joseph, Quebec.	1½ "	15	Hamilton & Co., Halifax, N.S.	" ..

## DISTRICT OF EAST QUEBEC—

June 23	Confectionery.	53314	J. Labadi, Montmagny...	1 lb.	10	.....	J. A. Baudet, Quebec.
" 23	" ..	53317	O. Carboneau, Berthier.	1 "	10	Unknown.....	.....
" 23	" ..	53321	J. Brelon, St. Pierre.....	1 "	10	.....	Caron fils, Levis.
" 24	" ..	53326	Dame J. A. Poliquin, 1½ Montmagny.	"	15	.....	Bernier & Allard, Scott Junction.
" 24	" ..	53335	Ad. Caron, Montmagny...	1½ "	15	.....	A. E. Bernier, Scott Station.
July 2	" ..	53338	N. Letourneau, Montmagny.	1½ "	14	Unknown.....	.....
" 2	" ..	53340	M. Lemieux, Montmagny.	1½ "	10	Ed. Bernier, Scott Junction.	Manufacturers..
" 2	" ..	53342	J. B. Poirier, Montmagny.	1½ "	10	R. Lesperance, Montmagny.	.....
" 2	" ..	53346	R. Lesperance, Montmagny.	1½ "	15	Unknown .....	.....
" 3	" ..	53351	F. J. Caron, Cap St. Ignace.	1½ "	15	.....	Vianet frères, Montreal.

## SESSIONAL PAPER No. 14

## CONFECTIONERY.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					Remarks.	No. of Sample.
	Moisture.	Sugar Calculated on Sample.		Cane Sugar by Clerget's Formula.	Arsenic.		
		Polarization of a 10% Solution in 2 dm. tube.					
		Direct.	Invert.				

F. X. W. E. BÉLAND, INSPECTOR.

	p.c.			p.c.			
.....	5.4	+46.5	+12.8	66.04	None...	.....	37085
.....	4.2	+42.8	+4.2	75.63	"	.....	37086
.....	4.1	+46.2	+12.0	67.03	"	.....	37087
.....	5.7	+54.2	+32.0	43.50	"	.....	37088
.....	6.5	+41.1	+2.4	75.63	"	.....	37089
.....	4.8	+42.8	+3.8	76.44	"	.....	37090
.....	4.6	+42.3	+3.0	77.01	"	.....	37091
.....	9.2	+45.0	+6.8	74.85	"	.....	37092
.....	2.4	+42.7	+2.2	79.35	"	.....	37093
.....	3.7	+42.5	+2.8	77.79	"	.....	37094

ALF. PELLETIER, INSPECTOR.

.....	1.7	+41.5	+2.0	77.40	None...	.....	53314
.....	3.8	+44.0	+7.0	72.31	"	.....	53317
.....	3.0	+41.5	+4.0	73.48	"	.....	53321
.....	2.4	+42.0	+4.0	74.46	"	.....	53326
.....	3.9	+45.0	+12.0	64.66	"	.....	53335
.....	2.2	+44.0	+3.0	80.34	"	.....	53338
.....	2.7	+49.0	+14.0	68.59	"	.....	53340
.....	3.7	+50.5	+16.0	67.63	"	.....	53342
.....	3.9	+51.0	+18.0	64.66	"	.....	53346
.....	3.0	+5.0	+6.0	76.44	"	.....	53351

6 GEORGE V, A. 1916

BULLETIN No. 288—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF THREE RIVERS—

1913.							
June 23	Confectionery.	58967	O. Rainville, St. Felix de Valois.	1½ lbs.	15	McCormick Co., London, Ont.	
" 23	"	58968	"	1½ "	23	Viau et Frère, Montreal.	
" 23	"	58969	"	1½ "	23	McCormick Co., London, Ont.	
" 24	"	58970	Wilfrid Brissette, St. Felix de Valois.	1½ "	23	Viau et Frère, Montreal.	
" 24	"	58971	"	1½ "	18	"	
" 24	"	58972	"	1½ "	15	Jos. Dufresne, Montreal.	
" 25	"	58973	J. A. Peltier, Three Rivers	1½ "	40	H. K. Wampole & Co., Perth, Ont.	
" 25	"	58974	L. P. Normand "	1½ "	40	Gibson & Son, London, Eng.	
" 25	"	58975	I. R. O. Dumont "	1½ "	30	Montreal Biscuit Co., Montreal.	
" 10	"	58991	A. Amirault, L'Epiphanie	1½ "	15	Viau et Frère, Maisonneuve.	

## DISTRICT OF EASTERN TOWNSHIPS—

July 14	Confectionery.	1656	J. B. M. St. Laurent et Fils, Compton.	1½ "	20	Robertson Bros.	
" 14	"	1657	I. Bureau, Compton.	1½ "	30	J. N. Godin, Three Rivers.	
" 15	"	1658	A. Matte, West Shefford.	1 "	40	D. S. Perrin & Co., Ltd., Montreal.	
" 16	"	1659	Berge Bros. & Co., Sherbrooke.	1½ "	45	"	
" 16	"	1660	Panos & Katadotis, Sherbrooke.	1½ "	30	Unknown	
" 16	"	1661	S. Farhat, Sherbrooke, East.	1½ "	25	"	
" 16	"	1662	"	1½ "	30	Viau et Frère, Montreal.	
" 17	"	1663	E. Marcoux, Weedon.	1½ "	18	The Montreal Biscuit Co., Montreal.	
" 22	"	1664	J. R. Ouellette, Black Lake	1½ "	45	Unknown	
" 22	"	1665	Longmoor & McElreany, Thetford Mines.	1½ "	23	La Cie de Biscuits and Confectionery Scotts.	
" 24	"	1666	Rowell, Son & Co., Sherbrooke.	1½ "	23	Vendors.	
" 24	"	1667	"	1½ "	23	"	

## SESSIONAL PAPER No. 14

## CONFECTIONERY.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						Remarks.	No. of Sample.	
	Moisture.	Sugar Calculated on Sample.				Cane Sugar by Clerget's Formula.			Arsenic.
		Polarization of a 10% Solution in 2 dm. tube.							
		Direct.	Invert.						

Dr. V. P. LAVALLEE, INSPECTOR.

	p. c.			p. c.			
..... , .....	1.7	+43.0	+ 6.0	72.51	None.	.....	58967
Chocolates .....	2.2	+46.0	+10.0	70.54	"	.....	58968
Mint.....	0.6	+42.0	- 6.0	94.07	"	.....	58969
Chocolates.....	3.1	+44.0	+ 8.0	70.54	"	.....	58970
.....	2.6	+40.0	+ 6.0	66.61	"	.....	58971
.....	2.6	+21.5	- 4.0	49.97	"	.....	58972
.....	4.1	+40.0	+ 4.0	70.54	"	.....	58973
.....	3.1	+19.0	-12.0	60.74	"	.....	58974
.....	5.0	+40.5	+14.0	51.92	"	.....	58975
.....	1.8	+21.0	+ 5.0	31.36	"	.....	58991

J. C. ROULEAU, INSPECTOR.

Caramel .....	6.7	+44.5	+16.0	55.82	None.	.....	1656
Chocolates.....	5.2	+46.0	+14.0	62.71	"	.....	1657
" .....	11.1	+35.5	+ 6.0	57.80	"	.....	1658
Lemon Drops.....	6.8	+31.5	+ 6.0	49.97	"	.....	1659
Chocolates.....	3.6	+46.0	+10.0	70.54	"	.....	1660
Strawberries .....	1.1	+39.5	- 2.0	81.33	"	.....	1661
Chocolate Whipped Creams...	2.3	+43.0	+ 9.0	66.64	"	.....	1662
City Mixture.....	3.5	+43.0	+16.0	52.91	"	.....	1663
Surettes.....	7.5	+36.0	+ 4.0	62.71	"	.....	1664
Chocolates.....	4.9	+45.5	+12.0	65.68	"	.....	1665
Molasses Kisses.....	6.7	+50.5	+40.0	32.32	"	.....	1666
Common Sticks.....	3.6	+49.4	+16.4	64.65	"	.....	1667

6 GEORGE V, A. 1916

BULLETIN No. 288—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MONTREAL—

1913.							
July 23	Confectionery.	58716	E. Guenette, St. Polycarpe.	1½ lbs.	38	Aetna Biscuit Co., Montreal.	
" 23	"	58717	T. Boyer, St. Polycarpe,	1½ "	18	"	
" 24	"	58718	S. Brunet, Coteau Landing.	1½ "	23	"	Christie Brown Co., Montreal.
" 24	"	58719	J. Aumais, Coteau Landing.	1½ "	15	McCormick Mfg. Co., London, Ont.	
" 24	"	58720	J. H. Methot, Coteau Landing.	1½ "	38	Viau Frère, Montreal.	
" 25	"	58721	A. Bissonette, St. Zotique.	1½ "	15	"	L. Gendron, Valleyfield.
Aug. 6	"	58722	Emile Gandry, 31 Laurier Ave., West, Montreal.	1½ "	45	"	Chivers & Parsons, Montreal.
" 14	"	58723	Messrs. Eugene & Co., 135 Mount Royal Avenue, Montreal.	1½ "	15	"	Salhem Salhani, Montreal.
" 14	"	58724	H. Poreles, 255 Mount Royal Ave., Montreal.	1½ "	23	"	J. Nyerson, & Son, Montreal.
" 14	"	58725	Noonan Hogue, 328 Mount Royal Ave., Montreal.	1½ "	30	"	F. Fenese, Montreal.

## DISTRICT OF VALLEYFIELD—

July 2	Confectionery.	58011	E. Darlington, Lachute.	1½ lbs.	30	Montreal Biscuit Co.	
" 2	"	58012	Pariseau Bros., Brownsburgh, P. Q.	1½ "	23	Robertson Bros.	
" 2	"	58013	"	1½ "	30	Viau Frère.	
" 2	"	58014	Hardie & Co., Brownsburgh, P. Q.	1½ "	15	McCormick Co.	
" 15	"	58015	Leduc et Frère, Valleyfield.	3 "	45	Viau Frère, Montreal.	
" 15	"	58016	"	3 "	45	"	
" 21	"	58017	Théodule Aubry, Lancaster, Ont.	1½ "	15	"	
" 21	"	58018	D. McRea, Lancaster, Ont.	1½ "	15	W. J. Crothers Co., Kingston, Ont.	
" 21	"	58019	John Caron, Lancaster, Ont.	1½ "	30	"	
" 21	"	58020	"	1½ "	25	"	



SESSIONAL PAPER No. 14  
CONFECTIONERY.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					Remarks.	No. of Sample.	
	Moisture.	Sugar Calculated on Sample.			Cane Sugar by Clerget's Formula.			Arsenic.
		Polarization of a 10% Solution in 2 dm. tube.						
		Direct.	Invert.					

D. J. KEARNEY, INSPECTOR.

	p. c.			p. c.			
.....	3.7	+14.5	-12.0	51.92	None.	.....	58716
.....	2.4	+30.0	-12.0	82.32	"	.....	58717
.....	2.1	+43.0	+ 4.0	76.41	"	.....	58718
.....	2.0	+43.0	0.0	84.27	"	.....	58719
.....	1.0	+41.0	- 4.0	88.19	"	.....	58720
.....	2.8	+46.0	+12.0	66.64	"	.....	58721
.....	3.2	+31.0	+ 2.0	62.71	"	.....	58722
.....	2.5	+45.0	+ 4.0	80.34	"	.....	58723
.....	0.0	+30.0	-12.0	82.32	"	.....	58724
.....	6.2	+43.0	+22.0	41.16	"	.....	58725

J. J. COSTIGAN, ACTING INSPECTOR.

Strawberry Drops.....	6.6	+ 7.0	-11.0	35.26	None.	.....	58011
Mixed Candies.....	2.3	+44.0	+ 8.0	70.54	"	.....	58012
Chocolates.....	2.2	+45.5	+ 9.0	71.53	"	.....	58013
Mixed Candies.....	2.5	+43.5	+ 5.0	75.45	"	.....	58014
Striped Marbles.....	3.9	+46.0	+16.0	58.77	"	.....	58015
Raspberry Drops.....	5.2	+31.0	+17.0	27.36	"	Invert Sugar..	58016
Mixed Candy.....	2.7	+45.0	+ 8.0	72.31	"	.....	58017
" ".....	2.7	+50.0	+12.0	74.46	"	.....	58018
Strawberry Drops.....	1.5	+41.0	- 1.0	82.32	"	.....	58019
Mixed Cream.....	1.4	+44.0	0.0	86.22	"	.....	58920

6 GEORGE V, A. 1916  
BULLETIN No. 288—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF OTTAWA—

1913.							
June 24	Confectionery.	59116	A. Parkinson & Son, Kemptville.	1½ lb.	20	Abbott, Grant & Co., Brockville.	Manufacturers..
" 24	" ..	59117	Jno. E. Mackay, Kemptville.	1½ "	15	D. S. Perrins & Co., Ltd., London, Ont.	" ..
" 28	" ..	59118	The Mackay Bros., Ltd., Renfrew.	1½ "	30	Crothers & Co., Kingston.	" ..
" 28	" ..	59119	Michael Vice, Renfrew.	1½ "	23	Weston's, Ltd., Toronto.	" ..
" 30	" ..	59120	Frank Spinello, Smiths Falls.	1½ "	30	Ramsay, Montreal	" ..
" 30	" ..	59121	Kanelakos Bros., Smiths Fall.	1½ "	35	Vendors.....	.....
July 2	" ..	59122	Bradfield Bros., Morrisburg.	1½ "	53	W. J. Crothers, Kingston.	Manufacturer...
" 4	" ..	59123	Cherry & Craig, Ottawa.	1 doz.	12	Unknown.....	Bunnell Bros, Ottawa.
" 11	" ..	59124	A. E. Rea Co., Ltd, Ottawa.	1½ lb.	30	" .....	Unknown. ....
" 14	" ..	59125	F. W. Woolworth Co., Ltd., Ottawa.	1½ "	15	Montreal Biscuit Co., Montreal.	.....

## DISTRICT OF KINGSTON—

June 24	Confectionery.	57359	T. Sakell, Kingston.....	1½ lb.	30	McCormick Co., London.	.....
" 24	" ..	57360	M. P. Pappas, Kingston.	1½ "	25	Crothers Co., Kingston.	.....
" 24	" ..	57361	T. Sakell, Kingston.....	1½ "	30	Maclure & Lanaley, Toronto.	.....
" 24	" ..	57362	Geo. Masoud, Kingston..	1½ "	30	McCormick, London.	.....
" 25	" ..	57363	Mrs. Wells, Cobourg....	1½ "	30	Perrin & Co., London.	.....
" 25	" ..	57364	A. F. Perks, Cobourg....	1½ "	30	" ..	.....
" 25	" ..	57365	C. A. Thompson, Cobourg	1½ "	23	Watson, Montreal.	.....
" 26	" ..	57366	Mrs. Bowman, Peterboro.	1½ "	30	.....	J. J. Hill, Peterboro.
" 26	" ..	57367	Crebar & De Carlonis, Peterboro.	1½ "	30	.....	" ..
" 26	" ..	57368	T. H. Hooper, Peterboro	1½ "	30	Vendor .....	.....

SESSIONAL PAPER No. 14  
CONFECTIONERY.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					Remarks.	No. of Sample.	
	Moisture.	Sugar Calculated on Sample.		Cane Sugar by Clerget's Formula.				Arsenic.
		Polarization of a 10% Solution in 2 <sup>d</sup> dm. tube.						
		Direct.	Invert.					

J. A. RICKEY, INSPECTOR.

	p.c.			p.c.			
.....	6.4	+32.0	-10.0	82.32	None.	.....	59116
.....	5.2	+47.0	+10.8	71.93	"	.....	59117
.....	4.4	+36.0	-4.0	78.39	"	.....	59118
.....	7.8	+45.0	+36.8	16.07	"	Starch present. ....	59119
.....	3.6	+43.4	+5.0	75.24	"	.....	59120
.....	3.1	+43.0	+3.2	78.00	"	.....	59121
.....	5.2	+36.0	-7.6	85.44	"	.....	59122
.....	0.5	+40.0	+3.6	75.32	"	.....	59123
.....	2.0	+41.6	-2.0	85.44	"	.....	59124
.....	8.3	+51.6	+19.6	62.71	"	.....	59125

JAS. HOGAN, INSPECTOR.

.....	3.6	+48.0	+21.0	52.91	None.	.....	57359
.....	1.4	+42.0	+2.0	78.39	"	.....	57360
.....	5.5	+42.0	+19.0	45.06	"	.....	57361
.....	0.5	+41.5	+17.0	48.00	"	.....	57362
.....	2.7	+38.5	+1.0	73.48	"	.....	57363
.....	1.6	+44.5	+8.0	71.53	"	.....	57364
.....	1.6	+45.0	+4.0	80.34	"	.....	57365
.....	1.8	+42.0	-2.0	86.22	"	.....	57366
.....	3.0	+43.5	+6.0	73.48	"	.....	57367
.....	1.9	+27.0	-0.4	53.69	"	.....	57368

6 GEORGE V, A. 1916

BULLETIN No. 288

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF TORONTO—

1913.							
June 23	Confectionery.	57425	F. W. Woolworth Co., Ltd., Collingwood.	1½ lb.	15	Robertson Bros., Toronto.	.....
" 25	"	57426	A. G. McNabb, Barrie...	1½ "	23	Robert Watson Co., Toronto.	.....
" 26	"	57427	James Richardson, Pickering.	1½ "	15	W. Patterson, Son & Co., Brantford	.....
" 27	"	57428	Wm. Meeker, Whitby....	1½ "	20	Mooney Biscuit Co., Montreal.	.....
July 3	"	57429	H. Henneberg, 312 College St., Toronto.	1½ "	23	Robert Watson & Co., Toronto.	.....
" 3	"	57430	The R. J. Barber Co., 16 Francis St., Toronto.	1½ "	23	Vendors .....	.....
" 3	"	57431	J. W. Fenny, 109 Front St. east, Toronto.	1½ "	20	Vendor. ....	.....
" 4	"	57132	H. K. Webb, 1036 Queen St. west, Toronto.	1½ "	23	.....	Robertson Bros., Toronto.
" 5	"	57433	Samuel Rogul, 320 Queen St., west, Toronto.	1½ "	15	.....	Maclure & Langley, Ltd., Toronto.
" 5	"	57434	S. Brown, 364 Spadina Ave., Toronto.	1½ "	15	Robertson Bros., Toronto.	.....

## DISTRICT OF HAMILTON—

July 8	Confectionery.	58851	Almas & Co., 152 King William St., Hamilton.	1½ lb.	18	Vendors... ..	.....
" 8	"	58852	" " " "	1½ "	18	" .....	.....
" 10	"	58853	Christophers, 77 King St. east, Hamilton.	1½ "	35	The Bowes Co., Ltd., Toronto.	.....
" 10	"	58854	F. W. Woolworth Co., King St. east, Hamilton.	1½ "	15	Vendors .....	.....
" 10	"	58855	Christophers, 5 King St. east, Hamilton.	1½ "	40	" .....	.....
" 10	"	58856	Thos Jocelyn, Brant St., Burlington.	1½ "	27	Robertson Bros., Ltd., Toronto.	.....
" 15	"	58857	C. H. Knowles, 201 York St., Hamilton.	1½ "	30	Perrins, London..	.....
Aug. 20	"	58858	W. R. McKewen, 63 Main St., Welland.	1½ "	30	Unknown.....	.....
" 25	"	58859	Yates & Thomas, Candy Kitchen, Guelph.	1½ "	45	Made in England..	.....
" 26	"	58863	T. Eagan, King St., Berlin.	1½ "	30	Vendor .....	.....

## SESSIONAL PAPER No. 14

## CONFECTIONERY.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.						Remarks.	No. of Sample.
	Moisture.	Sugar Calculated on Sample.				Arsenic.		
		Polarization of a 10% Solution in 2 dm. tube						
		Direct.	Invert.	Cane Sugar by Clerget's Formula.				

## H. J. DAGER, INSPECTOR.

	p. c.			p. c.				
.....	8.0	+58.0	+46.0	23.56	None.	Glucose and Starch..	57425	
.....	2.6	+45.0	+ 6.0	76.41	"	.....	57426	
.....	2.8	+44.0	+ 6.0	74.46	"	.....	57427	
.....	2.1	+43.0	+ 2.0	80.34	"	.....	57428	
.....	3.9	+45.5	+14.0	61.72	"	.....	57429	
.....	4.8	+22.0	+ 3.0	37.23	"	.....	57430	
.....	5.1	+23.0	+ 4.0	37.23	"	.....	57431	
.....	0.9	+40.0	- 4.0	86.22	"	.....	57432	
.....	1.3	+41.5	- 2.0	85.25	"	.....	57433	
.....	0.8	+39.5	- 5.0	77.20	"	.....	57434	

## D. M. CAMERON, INSPECTOR.

Spearmint Suckers.....	3.3	+42.0	+5.0	72.31	None.	.....	58851
Chewing Butter Scotch.....	4.8	+49.5	+25.0	48.02	"	.....	58852
Turkish Delight.....	7.1	+15.0	-8.0	45.06	"	.....	58853
Wintergreen.....	1.1	+40.5	-5.0	89.18	"	.....	58854
Caramels.....	4.1	+43.5	+23.0	40.17	"	.....	58855
Licorice Plugs.....	11.0	+5.0	+2.0	5.88	"	Licorice and Starch..	58856
Aniseed Balls.....	0.7	+37.0	-10.0	92.09	"	.....	58857
.....	2.5	+40.5	+1.0	77.40	"	.....	58858
.....	12.4	+33.0	+18.0	29.38	"	.....	58859
Fruit Candy.....	5.0	+40.0	+17.0	45.06	"	.....	58863

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BULLETIN No. 288—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF WINDSOR—

1913.							
July	3	Confectionery.	54842 Ellsworth & Sons, Ridge-	1½	lb.	20	Christie, Brown,
			town.				Toronto.
"	3	" ..	54845 Clerk & Sons, Ridgetown.	1½	"	15	W. Patterson &
							Sons, Brant-
"	7	" ..	54860 H. J. Glover, Chatham,	1½	"	15	ford
			Ont.				Candy Specialty
"	8	" ..	54862 G. Adam, Windsor, Ont.	1½	"	15	Co., Chatham,
							Ont.
"	8	" ..	54863 Jas. La Pierre, Windsor,	1½	"	12	A.W. Tompkins,
			Ont.				Windsor, Ont.
"	8	" ..	54868 A. Raines, Essex, Ont...	1½	"	22	H. E. Guppy &
							Co., Windsor,
"	10	" ..	54874 P Phillips, Leamington...	1½	"	15	Ont.
							D. S. Perrin & Co.,
"	10	" ..	54875 B. & M. McIntyre, Leam-	1½	"	22	London.
			ington.				McCormick Co.,
"	10	" ..	54876 B. C. Watson, Leaming-	1½	"	20	London.
			ton.				Unknown...
"	10	" ..	54877 F. Davies, Leamington...	1½	"	30	C. H. Dover &
							Co., Berlin.
							Perrin & Co.,
							London.

## DISTRICT OF MANITOBA—

June	27	Confectionery.	48901 S. Gatto, 1128 Main st.,	1½	lbs.	60	Unknown.....	Unknown .....
			Winnipeg.					
"	27	" ..	48902 G. F. Macdaniel, Main	1½	"	60	" .....	" .....
			st. north, Winnipeg.					
"	27	" ..	48903 I. Pechet, 965 Main st.,	1½	"	30	" .....	Dingle & Stewart,
			Winnipeg.					Winnipeg.
"	27	" ..	48904 J. Russell, Winnipeg....	1½	"	30	.....	The Paulin,
								Chambers Co.,
July	2	" ..	48905 The Central Grocery, 541	1½	"	38	.....	Ltd., Winnip'g
			Ellice st., Winnipeg.					
"	3	" ..	48906 Rome Café (J. Venier),	1½	"	60	W. J. Boyd Co.,	
			Portage ave., Winnipeg.				Winnipeg.	
"	3	" ..	48907 A. R. Christie, Portage	1½	"	25	.....	
			ave., Winnipeg.					
"	15	" ..	48908 Ed. Bolton, Brandon....	1½	"	25	.....	D. S. Perrin,
								Winnipeg.
"	17	" ..	48909 The Mooney Biscuit and	3	pkgs	Nil.	Vendors .....	
			Candy Co., Winnipeg.					
"	17	" ..	48910 The Paulin, Chambers	3	"	"	" .....	
			Co., Ltd.					

SESSIONAL PAPER No. 14

## CONFECTIONERY.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					Remarks.	No of Sample.
	Moisture.	Sugar calculated on Sample.			Arsenic.		
		Polarization of a 10% Solution in 2 dm. tube.		Cane Sugar by Clerget's Formula.			
		Direct.	Invert.				

JOHN TALBOT, INSPECTOR.

	p. c.			p. c.			
.....	3.0	+48.4	+13.2	68.98	None...	.....	54842
.....	3.3	+48.5	+13.4	69.77	"	.....	54845
.....	2.9	+46.1	+8.4	73.87	"	.....	54860
.....	3.8	+42.0	0.0	82.32	"	.....	54862
.....	2.6	+46.5	+10.8	69.96	"	.....	54863
.....	1.8	+42.9	+4.0	76.23	"	.....	54868
.....	2.9	+48.5	+14.6	66.43	"	.....	54874
.....	2.7	+46.9	+9.4	73.48	"	.....	54875
.....	1.9	+34.3	-10.4	86.59	"	.....	54876
.....	1.1	+43.5	+1.0	83.28	"	.....	54877

A. C. LARIVIÈRE, INSPECTOR.

.....	3.6	+35.1	+8.0	53.09	None...	.....	48901
.....	5.6	+36.0	+12.0	47.03	"	.....	48902
.....	4.0	+36.4	+5.0	61.54	"	.....	48903
.....	1.6	+42.0	0.0	82.32	"	.....	48904
.....	1.5	+37.0	-2.4	77.22	"	.....	48905
.....	4.7	+33.5	+8.0	50.00	"	.....	48906
.....	2.3	+43.2	+5.4	74.07	"	.....	48907
.....	7.1	+41.5	+2.4	76.62	"	.....	48908
.....	3.3	+47.3	+12.0	69.19	"	.....	48909
.....	1.9	+43.4	+2.0	81.12	"	.....	48910

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ROCKY MOUNTAINS—

1913.							
July	2	Confectionery.	49894 Wing Chung, Revelstoke, B.C.	1½ lb.	40	Robertson & Co., Toronto.	
"	2	"	49895 " "	1½ "	45	McCormick Mfg. Co., London, Ont.	
"	2	"	49896 L. C. Masson, Revelstoke, B.C.	1½ "	60	Mooney Candy Co., Vancouver.	
"	2	"	49897 " "	1½ "	60	" "	
"	2	"	49898 " "	1½ "	60	" "	
"	2	"	49899 " "	1½ "	60	" "	Nelson Shakespeare Watkins Ltd., Vancouver, B.O.
"	2	"	49990 " "	1½ "	60	" "	
"	16	"	49928 H. T. Bilkey, Rossland, B.C.	1½ "	60	Moirs Ltd., Halifax, N.S.	
"	16	"	49929 " "	1½ "	55	" "	
"	18	"	49945 Bell Trading Co., Nelson, B.C.	1½ "	25	Ganong Bros., St. Stephen, N.B.	

## DISTRICT OF VANCOUVER—

Aug.	15	Confectionery.	54936 Mrs. Howes, George st., Vancouver, B.C.	1½ lb.	45	Unknown	
"	15	"	54937 Joseph Behar, Richard and Georgia sts., Vancouver B.C.	1½ "	60	Ramsay Bros., Vancouver, B.C.	
"	15	"	54938 Nick Pappas, Main st., Vancouver, R.C.	1½ "	40	Haida Conf. Co., Vancouver, B.C.	
"	15	"	54939 Pete Stoall, Main st., Vancouver, B.C.	1½ "	55	" "	Leeson Dickie, Co., Vancouver
"	15	"	54940 George John, Main st., Vancouver, B.C.	1½ "	45	Ramsay Bros., Vancouver, B.C.	
"	15	"	54941 J. Pandas, Keefer and Main sts., Vancouver.	1½ "	60	Nat. Biscuit & Conf. Co., Vanc., B.C.	
"	15	"	54942 C. Noal, 303 Harris st., Vancouver, B.C.	1½ "	45	" "	Little Bros., Vancouver.
"	15	"	54945 Nick Kokinas, 212 Union st., Vancouver, B.C.	1½ "	35	Ramsay Bros., Vancouver, B.C.	
"	15	"	54944 P. Kermados, 701 Main st., Vancouver, B.C.	1½ "	55	Ramsay Bros., Vancouver, B.C.	
"	15	"	54945 Nick Kitsos, Hastings st. E., Vancouver, B.C.	1½ "	35	" "	Knowler, Macaulay, Vancouver.



SESSIONAL PAPER No. 14  
CONFECTIONERY.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						Remarks.	No. of Sample.
	Moisture.	Sugar Calculated on Sample.				Arsenic.		
		Polarization of a 10% Solution in a 2 dm. tube.						
		Direct.	Invert.	Cane Sugar by Clerget's Formula.				

THOS. PARKER, INSPECTOR.

	p.c.			p.c.			
Gum Drops .....	8.1	+58.0	+47.0	21.55	None.	Glucose and Starch.	49894
Star Creams .....	1.8	+45.5	+4.0	81.63	"	.....	49895
Mixed Creams .....	2.1	+44.5	+6.0	75.45	"	.....	49896
Jelly Beans .....	3.8	+46.5	+16.0	59.77	"	.....	49897
Caramels .....	7.0	+50.0	+30.0	39.18	"	.....	49898
Indian Pudding .....	3.7	+44.0	+21.0	45.06	"	.....	49899
Mixed Sateens, .....	3.7	+32.0	+6.0	50.96	"	.....	49990
.....	0.4	+39.0	-11.0	97.99	"	.....	49928
.....	0.5	+39.0	+4.0	68.59	"	.....	49929
.....	2.0	-46.0	+4.0	82.32	"	.....	49945

J. F. POWER, INSPECTOR

.....	10.2	+34.0	+2.0	62.74	None.	.....	54936
.....	6.5	+52.0	+23.0	56.81	"	.....	54937
.....	3.5	+49.5	+4.0	89.18	"	.....	54938
.....	10.5	+35.0	+2.8	63.10	"	.....	54939
.....	1.6	+43.5	0.0	85.25	"	.....	54940
.....	3.7	+41.6	+2.0	77.61	"	.....	54941
.....	8.6	+11.0	-10.0	41.16	"	.....	54942
.....	9.9	+55.5	+41.0	28.42	"	.....	54943
.....	6.1	+34.0	-8.0	82.32	"	.....	54944
.....	3.1	+45.5	+8.0	73.48	"	.....	54945

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BULLETIN No. 288—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VICTORIA—

1913.							
July	9	Confectionery.	53589	Windsor Grocery Co., 817 Govt. st., Victoria, B.C.	1½ lb.	45	Bailey & Gunn, Vancouver, B.C.
"	9	"	53597	R. Erskine & Co., 861 Johnston st., Victoria, B.C.	1½ "	40	Mooneys', Winnipeg.
"	16	"	57605	F. J. Williams, 613 Fort st., Victoria, B.C.	3 pkgs	60	Mainland Conf. Co., Vancouver, B.C.
"	21	"	57622	H. O. Kirkham & Co., 741 Fort st., Victoria, B.C.	1½ lb.	40	Robertsons, Montreal.
"	21	"	57623	" " "	1½ "	60	United Conf. Co., Ltd., Hull Eng.
"	28	"	57633	Liley's Candy Factory, 1417 Douglas st., Victoria, B.C.	1½ "	55	Vendors.
"	28	"	57634	" " "	1½ "	60	Robinson Bros., Toronto.
Aug.	5	"	57638	F. W. Woolworth Co., Ltd., 1110 Govt. st., Victoria, B.C.	1½ "	30	Brandle & Smith, Philadelphia, Pa.
"	5	"	57639	" " "	1½ "	30	Champion Davies, Bristol, Eng.
"	5	"	57640	" " "	1½ "	30	" "

## SESSIONAL PAPER No. 14

## CONFECTIONERY.

Inspector's report. (Is not an expression of opinion.)	Results of Analysis.						Remarks.	No. of Sample.
	Moisture.	Sugar Calculated on Sample.				Arsenic.		
		Polarization of a 10% Solution in 2 dm. tube.						
		Cane Sugar by Clerget's Formula.						
		Direct.	Invert.					

## D. O. SULLIVAN, INSPECTOR.

	p. c.			p. c.			
.....	8.8	+48.0	+32.0	31.36	None.	.....	53589
.....	2.0	+42.5	+ 4.0	75.45	"	.....	53597
.....	5.9	0.0	-12.0	23.50	"	Starch and invert Sugar.	57605
.....	4.1	+38.0	+10.0	54.86	"	.....	57622
Pure Confectionery.....	12.3	+47.0	+15.0	62.71	"	.....	57623
.....	2.5	+40.0	0.0	78.39	"	.....	57633
.....	0.7	+38.5	- 6.0	87.20	"	.....	57634
.....	5.0	+37.5	+28.0	18.62	"	Starch present.....	57638
.....	0.3	+36.0	+14.0	43.11	"	.....	57639
.....	3.3	+37.3	+ 6.0	61.33	"	.....	57640

## APPENDIX E.

### BULLETIN No. 239—STRAINED HONEY.

OTTAWA, AUGUST 25th, 1914.

J. U. VINCENT, Esq.,  
Deputy Minister, Inland Revenue,

SIR—I have the honour to submit to you a report upon one hundred and ninety four (194) samples, purchased throughout Canada in December and January last as Honey, chiefly as Strained Honey.

Honey is defined by an Order in Council dated 17th October 1912, and published by this Department as Circular G 1047, as follows:—

#### HONEY.

Honey is entirely the product of the work of bees operating upon the Nectar of Flowers, and other saccharine exudations of plants; and contains not more than twenty-five (25) per cent of water; not more than eight (8) per cent of Sucrose (Cane Sugar); not more than twenty-five hundredths (0.25) of one per cent of ash; and not less than sixty (60) per cent of Invert Sugar.

The standard above defined became effective on the 25th November, 1912.

The invert sugar referred to in this definition is of course that naturally present in the nectar of flowers, or produced by the operation of the organism of the bee; and not invert sugar artificially produced by the action of acids, or otherwise upon sucrose. This interpretation follows necessarily from the first statement of the definition.

Honey enjoys the peculiar distinction of being specially mentioned in the Adulteration Act, and is the only article of food in whose special regard this protection is granted.

Section 30 of the Act as it appears in the Revised Statutes of 1906, is as follows:

30. Honey. Except for the exclusive purpose of consumption as food, no person shall feed with or expose with intent that bees shall feed on the same, any sugar, glucose or any other sweet substance other than such as bees gather from natural sources; and no honey made by bees in whole or in part from any of such substances, and no imitation of honey or sugar honey so called, or other substitute for honey shall be manufactured or produced for sale or sold or offered for sale in Canada. 59 V., c. 12, s. 1.

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This section was repealed in May of this year, and the following substituted, under date 6th May 1914.

Honey. "The word honey shall not be used either alone or in combination with any other word or words on the label or other mark, illustration or device on any package containing any article of food which is or which resembles honey made by bees and no package containing any article of food which is not pure honey shall be labelled or marked in such a manner as is likely to make persons believe it is pure honey and any article of food labelled or marked in violation of this section shall be deemed to be adulterated within the meaning of this Act."

Medicinal syrups excepted. "The provisions of this section shall not apply to any syrup or compound manufactured and sold for medical purposes only."

It will be noted that substitutes for honey as an article of food were strictly prohibited manufacture or sale in Canada, and are still forbidden the use of any name in which the word "Honey" occurs; and in order to give publicity to this peculiar condition in regard to honey, the Department caused the following circular to be distributed in 1909

20  
Adulteration of Food.

G. 862.  
10,000.

## DEPARTMENT OF INLAND REVENUE.

TO ALL DEALERS IN ARTICLES OF FOOD.

OTTAWA, January 20th, 1909.

SIR,—Under Section 30 of "The Adulteration Act" the manufacture, sale or offering for sale in Canada of any imitation of honey or sugar honey or other substitute for honey is strictly forbidden. The provisions of Sections 24 of the said Act respecting the use of the word "mixture" does not apply to honey and any production or sale of this article as a compound is absolutely prohibited.

The punishment for any offence against the provisions of Section 30, above referred to, is determined by Section 164 of the Criminal Code and consists in the liability to a term of imprisonment of one year.

I remain, Sir

Your obedient servant,

W. J. GERALD,  
*Deputy Minister.*

In the case of butter, a similar prohibition of manufacture and sale of substitutes or imitations exists; but under special legislation (The Butter Act, 1903, and The Dairy Industry Act, 1914.)

Of the samples now reported 159 meet the requirements of existing standards for Honey, and 22 other samples are legally genuine except in one particular, namely excess of mineral matters the non-volatile portions of which appear as "ash."

6 GEORGE V, A. 1916

Ash is legally limited to 0.25 per cent, or one part in 400. The excess found above this maximum is trifling in most cases; but it is to be noted that ash existing in honey is chiefly due to dust or dirt and inspection of the results of analysis will show that most of the samples found to be genuine have a very low ash percentage, generally less than one part in 1000 (one tenth of one per cent).

In the strictest reading of the law, all samples containing more than 0.25 per cent ash are adulterated.

One sample (No. 2433) contains slightly more cane sugar than the law allows. The excess above 8 per cent, is so small that I have judged it as "doubtful" rather than "adulterated".

Two samples (Nos. 58522 and 58679) are not sold as honey, but as Honeymoon Syrup. The remaining ten samples call for special comment.

No. 56185 Is not honey. Alleged furnishers deny having supplied the article; The vendor has been notified, but has given no explanations.

No. 39092 Is not honey. No explanations have been received from vendor, manufacturer or furnisher.

No. 39093 Is not honey.

No. 2337 Both vendor and manufacturer claim to have sold this as Honeymoon Syrup which is at variance with the invoice of the inspector.

No. 39097 Is not honey. No explanations having been received in the case.

No. 58676 Is not honey. Was invoiced to the vendor as Balaklava Honey.

No. 58681 Is not honey. No explanation from vendor.

No. 59219 } The vendors assert they bought the article as honey.

No. 59221 } But they suspected its genuineness in consequence of its low price. The  
furnisher states that the article was made by T. Schachter, Montreal,  
and sold as compound honey.

No. 50040 Is not honey. The manufacturers state that the sample was made in 1911, and that they have since discontinued the manufacture of imitation honey.

If adulteration of a kind to justify prosecution exists, in the case of the present inspection, it does so in the ten samples just referred to. I may be permitted to point out that these samples contain nothing injurious to the health of the consumer; and that a presumption of honest intent on the part of the vendor and perhaps even of the manufacturer may be allowed, inasmuch as substitutes for or imitations of foods are distinctly recognized as legitimate and are provided for in the Act, as long as they are labelled correctly, in such a way as to prevent deception of the purchaser; honey being the sole exception in this regard.

That its exceptional position justified special warning seems to have been recognized by this Department in 1909, when circular G-862 was published. The experience of our inspectors is that the larger and better informed retailers refuse to handle all imitations of honey, and that it is only in the smaller shops that the article is found.

It is certain that no illegal manufacture of artificial honey, upon any considerable scale, exists in Canada, and I am convinced that the requirements of the Act only need to be better known, in order to their receiving universal recognition.

## SESSIONAL PAPER No. 14

This article has been made the subject of inspection on seven different occasions since 1897, the last being in June 1910 (See Bulletin No, 217). Our last report concluded with the sentence "It is satisfactory to know that honey, as offered for sale in Canada, is for the most part a genuine product." And this statement is correct to-day as in 1910.

I beg to recommend publication of this report as Bulletin No. 289.

I have the honour to be, Sir,  
Your obedient servant

A. MCGILL  
*Chief Analyst*

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1913.							
Dec. 16	Strained Honey.	53834	C. N. Mader, Mahone, N.S.	3 jars.	75	C. R. Pines, Chapman Corner, N.S.	Manufacturer ..
" 16	" ..	53835	Taylor Drug Co., Bridgewater, N.S.	3 "	75	N. D. & C. Co., Halifax, N.S.	Manufacturers..
1914.							
Jan. 15	" ..	53836	Nat. Drug & C. Co., Halifax, N.S.	1½ lb.	40	E. Robson.....	Manufacturer ..
" 22	" ..	53837	Brown Bros. & Co., Halifax, N.S.	3 jars.	45	N. D. & C. Co., Halifax, N.S.	Manufacturers..
" 22	" ..	53838	A. J. Baker, Halifax, N.S.	3 "	75	A. J. Lewis, Pereaun, N.S.	Manufacturer ..
" 23	" ..	53839	Bauld Bros., Ltd., Halifax, N.S.	3 "	51	Eastern Fruit Co., Port, Canada.	Manufacturers..
" 26	" ..	53840	C. A. Barnstead, Halifax, N.S.	1½ lb.	45	Unknown.....	N. D. & C. Co., Halifax, N.S.
" 26	" ..	53841	Estate of J. R. Rawley, Halifax, N.S.	3 jars.	45	N. D. & C. Co., Halifax, N.S.	.....
" 26	" ..	53842	R. B. Seeton & Co., Halifax, N.S.	3 "	50	Chas. Hogan, Cornwallis, N.S.	Manufacturer...
" 28	" ..	53843	G. C. McDougall, Kentville, N.S.	3 "	75	A. E. Lewis, Pereaun, N.S.	" ...
" 29	" ..	53844	R. B. Dakin, Windsor, N.S.	1½ lb.	40	A. Hanna, Falmouth, N.S.	" ...
" 30	" ..	53845	B. O. Bishop, Dartmouth, N.S.	1 "	50	Chas. Hogan, Cornwallis, N.S.	R. B. Seeton, Halifax, N.S.

## DISTRICT OF NEW BRUNSWICK—

1913.							
Nov. 26	Strained Honey.	59301	R. H. Cotter, St. John, N.B.	3 bots.	45	..	Todd Bros., Mill town, N.B.
" 26	" ..	59302	W. H. Bell, St. John, N.B.	3 "	36	.....	.....
" 28	" ..	59303	G. E. Barbour Co. Ltd., St. John, N.B.	3 "	50	Vendors.....	.....
Dec. 3	" ..	59304	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 "	45	" ..	.....
" 9	" ..	59305	Thos. G. Perry, Have-lock, N.B.	3 jars.	60	Vendor ..	.....
" 10	" ..	59306	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	3 "	45	.....	.....
" 12	" ..	59307	The Canadian Drug Co., St. John, N.B.	3 "	50	Jarvis & Fretz, Forest, Ont.	.....
" 17	" ..	59308	A. V. Checchi, St. Stephen, N.B.	3 "	75	George F. Beach, Honeydale, N.B.	.....



## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report. (Is not an expression of Opinion.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Water.	Polarization at 20°c.				Physical Characteristics.		Total Ash.			Artificial Invert Sugar, Aniline Acetate and Fische Reagents.
		Direct.	Invert.	Difference.	Cane Sugar by Clerget Formula.	Colour.	Granulation.				

## R. J. WAUGH, INSPECTOR.

	p.c.				p.c.			p.c.			
.....	17.10	-16.2	-18.7	2.5	1.9	Light straw.	Partial.	0.14	None.	53834	Genuine.
.....	24.90	-11.3	-12.8	1.5	1.1	"	None.	0.12	"	53835	"
.....	24.88	-15.3	-18.0	2.7	2.0	White.	Com- plete.	0.20	"	53836	"
.....	22.64	-8.0	-12.8	4.8	3.9	Light straw.	Partial.	0.28	"	53837	"
.....	11.32	-11.1	-11.4	0.3	0.2	"	None.	0.34	"	53838	Ash high. Other- wise genuine.
Labelled Pure..	23.22	-14.7	-16.2	1.5	1.1	Brown.	Partial.	0.18	"	53839	Genuine.
The Vendor would not guar- antee quality.	23.22	-8.2	-14.1	5.9	4.4	Light straw.	None.	0.32	"	53840	Ash high. Other- wise genuine.
.....	23.78	-7.2	-11.3	4.1	3.0	"	Partial.	0.08	"	53841	Genuine.
.....	13.63	-7.2	-9.0	1.8	1.3	"	None.	0.20	"	53842	"
.....	17.59	-6.4	-9.4	3.0	2.2	"	"	0.40	"	53843	Ash high. Other- wise genuine.
.....	15.33	-16.5	-20.7	4.2	3.2	Dark straw.	"	0.46	"	53844	"
.....	15.34	-11.5	-16.0	4.5	3.4	Light straw	Partial.	0.08	"	53845	Genuine.

## JNO. C. FERGUSON, INSPECTOR.

.....	19.29	-16.2	-17.9	1.7	1.2	Straw ..	None.	0.20	"	59301	Genuine.
.....	17.61	-6.3	-17.6	11.3	8.5	Light straw.	"	0.02	"	59302	"
Gold Bond	18.72	-18.2	-20.5	2.3	1.6	"	Partial.	0.12	"	59303	"
N. Scotia Honey	18.15	-12.1	-13.9	1.8	1.3	"	"	0.40	"	59304	Ash high. Other- wise genuine.
White Clover.	17.01	-11.8	-15.2	3.4	2.5	Dark straw.	None.	0.28	"	59305	Genuine
Signet Brand	19.86	-19.0	-19.5	0.5	0.3	Light straw.	"	0.24	"	59306	"
Honey in Comb from Jarvis & Fretz. Strained and Bottled by Vendors.	17.59	-13.1	-14.5	1.4	1.1	"	Partial.	0.32	"	59307	Ash high. Other- wise genuine.
.....	19.29	-15.5	-15.7	0.2	0.1	Dark straw.	"	0.26	"	59308	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NEW BRUNSWICK—

1914.							
Jan. 6	Strained Honey.	59309	E. G. Hoben, Fredericton, N.B.	3 jars.	75	Woodbury & Shepherd, Douglas, N.B.	.....
" 7	"	59310	Garden Bros., Woodstock, N.B.	3 "	90	G. S. Peabody, Woodstock, N.B.	.....
" 9	"	59311	J. W. McPhail, Perth, N.B.	3 "	75	A. L. Green, Perth, N.B.	.....
" 13	"	59312	Sussex Mercantile Co. Ltd., Sussex, N.B.	3 "	60	E. L. Colpitts, Petitediac, N.B.	.....

## DISTRICT OF QUEBEC—

1913.							
Nov. 25	Honey. ....	56174	J. B. Lapointe, 57 St. Ambroise St., Quebec	3 jars.	45	Dr. L. Leclerc, Lorrette, St. Ambrois.	Manufacturer ...
" 25	"	56175	N. Cote, 79 St. Ambroise St., Quebec.	3 "	45	Charles T. Gauvin, Ancienne, Lorrette.	" ...
" 26	"	56176	C. Bedard, 588 $\frac{1}{2}$ Francois St., Quebec.	3 "	30	J. A. Barrette, Villa Maria, Petite Riviere.	" ...
" 26	"	56177	Eudore Delisle, 2 Tache reau Ave., Quebec.	3 "	45	Unknown	Jos. Masson ...
" 26	"	56178	J. P. Gagnon, 109 St. Ambroise St., Quebec	3 "	60	"	Dr. Ed. Morin ..
" 27	"	56179	L. Desgagne, 914 St. Valier St., Quebec.	3 "	54	Dr. L. Leclerc, Lorrette.	Manufacturer ...
" 27	"	56180	"	3 "	54	Upton Co. Ltd	" ...
" 28	"	56181	Louis Blouin, 81 Renaud Ave., Quebec.	3 "	45	Unknown	Dr. Ed. Morin ..
Dec. 1	"	56182	Jos. Gimond, 179 Bayard St., Quebec.	3 "	45	"	Quebec Preserving Co.
" 1	"	56183	Mad. Jean Larberge, Victoria St., Quebec.	813 "	45	"	Unknown
" 1	"	56184	E. Robitail, 48 St., Quebec.	3 "	45	C. L. Gauvin, Encienne, Lorrette.	Manufacturer ...
" 2	"	56185	J. C. Lebel, 86 Durocher St., Quebec.	3 "	24	Unknown	N. Turcotte & Cie.

## DISTRICT OF EAST QUEBEC—

Dec. 29	Honey. ....	2417	L. J. Levasseur, Matane	3 jars.	120	.....	J. B. Renaud, Quebec.
" 30	"	2424	A. E. Talbot, Riviere Blanche.	3 "	60	.....	White & Turner, Quebec.
" 30	"	2426	P. A. Parent, Riviere Blanche.	3 "	60	T. Upton & Co., Hamilton, Ont.	.....

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Polarization at 20° c.			Cane Sugar by Clerget Formula.	Physical Characteristics.		Total Ash.	Artificial Invert Sugar, Aniline Acetate and Fehle Reagents.			
		Direct.	Invert.	Difference.		Colour.	Granulation.					
<i>Concluded.</i>												
Clover Honey, . . . . .	p.c.				p.c.			p.c.				
	17.02	-16.0	-18.5	2.5	2.0	Straw.	Partial.	0.18	None.		59309	Genuine.
.....	23.20	-17.2	-17.9	0.7	0.5	Light straw.	None.	0.26	"		59310	"
.....	19.86	-13.5	-18.9	5.4	4.0	Light straw.	None.	0.30	"		59311	Ash high. Other wise genuine.
.....	19.84	-18.8	-20.4	1.6	1.3	Brown.	Partial.	0.32	"		59312	" "

## F. X. W. E. BELAND, INSPECTOR.

	15.89	-10.7	-16.0	5.3	3.9	Light straw.	None.	0.06	None.		56174	Genuine.
	14.18	-11.8	-13.0	1.2	0.9	White.	Complete.	0.08	"		56175	"
	17.00	-3.8	-11.3	7.5	5.7	Light straw.	None.	0.10	"		56176	"
	10.75	-10.4	-16.4	6.0	4.4	"	Partial.	0.06	"		56177	"
	22.64	-10.1	-12.1	1.0	0.7	"	None.	0.08	"		56178	"
	19.29	-10.8	-12.9	2.1	1.5	"	"	0.06	"		56179	"
	17.61	-16.6	-18.7	2.1	1.5	Brown.	Partial.	0.32	"		56180	Ash high. Other-wise genuine.
	23.20	-11.3	-15.4	4.1	3.0	Light straw.	None.	0.30	"		56181	"
	12.49	-14.8	-16.3	1.5	1.1	Brown.	Partial.	0.38	"		56182	"
	22.09	-10.8	-13.2	2.4	1.8	Straw.	None.	0.16	"		56183	Genuine.
	15.89	-11.8	-14.8	3.0	2.2	White.	Complete.	0.36	"		56184	Ash high. Other-wise genuine.
	15.89	+41.1	+37.5	3.6		Light	Partial.	0.35	"		56185	Ash high. Is not honey. Messrs. Turcotte et Cie deny having furnished this sample to Mr. Lebel. Vendor has made no explanation.

## ALF. PELLETIER, INSPECTOR.

	17.10	-10.8	-14.8	4.0	3.0	Brown.	None.	0.35	None.		2417	Ash high. Other-wise genuine.
	19.29	-14.0	-16.5	2.5	2.0	Straw.	"	0.43	"		2424	" "
	14.76	-13.2	-15.7	2.5	2.0	Brown.	Complete.	2.0	"		2426	Genuine.

6 GEORGE V, A. 1916

BULLETIN No. 289—

Date of Collection:	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Fame and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF EAST QUEBEC—

1914.							
Jan. 10	Honey.....	2433	A. C. Landry, St. Flavie	3 jars.	75	Alp. Langlais, St. Philippe de Neri.	
" 10	" .....	2438	C. Leteque & Co., St. Flavie.	3 "	60		Drouin & Frere, Quebec.
" 12	" .....	2445	A. Voyer, St. Flavie...	3 "	75	Victor Chercuite, Beauport.	
" 12	" .....	2450	Leon Roy, St. Flavie...	3 "	75		D. Belanger, St. Francois.
" 14	" .....	2455	A. Derjon & Co.....	3 "	75	Upton's.....	
" 14	" .....	2456	H. G. Lepage.....	3 "	75		E. Morin, Quebec.
" 15	" .....	2457	R. Leteque, R. du Loup	3 "	60	T. Upton & Co., Hamilton, Ont.	
" 15	" .....	2461	J. S. Proulx..	3 "	52		
" 15	" .....	2465	Ouellet & Ouellet, R. du Loup.	3 "	54		

## DISTRICT OF THREE RIVERS—

1913.							
Dec. 9	Strained Honey.	60901	Joseph Belleville, St. 1½ lb.	35	Vendor .....		
" 10	" ..	60902	Ludger Poirier, St. Felix 1½ "	35	" .....		
" 11	" ..	60903	Cleophas Boisvert, St. 1½ "	35	" .....		
			Gabriel.				

## DISTRICT OF EASTERN TOWNSHIPS—

Dec. 4	Strained Honey.	39086	Beaulin Maillnat & Cie., St. Maurice de Thetford.	2 jars.	35	T. Upton Co., Ltd., Hamilton, Ont.	
" 4	" ..	39087	A. S. Johnson, St. Maurice de Thetford.	3 "	60	Unknown .....	
" 5	" ..	39088	Hebert & Fortier, East Sherbrooke.	2 "	60	N. U. Gregorie, Sherbrooke.	
" 9	" ..	39089	U. Lacroix, Sherbrooke.	2 "	60		G. T. Armstrong, Sherbrooke.
" 10	" ..	39090	H. H. Guay, Ltd., Victoriaville.	1 jar.	150	Amide Trottier, Fecteau's Mills.	
" 11	" ..	39091	McMurray & Hall, Lennoxville.	2 jars.	60	O. Desruisseau, Lennoxville.	
" 15	" ..	39092	T. A. Bourgault, Drummondville.	3 "	45	Eastern Fruit Co., Port.	J. B. Renaud, Quebec.

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.										Remarks and Opinion of the Chief Analyst.
	Water.	Polarization at 20°C.			Cane Sugar by Clerget Formula.	Physical Characteristics.		Total Ash.	Artificial Invert Sugar, Aniline Acetate and Fische Reagents.	No. of Sample.	
		Direct.	Invert.	Difference.		Colour.	Granulation.				
<i>Concluded.</i>											
	p. c.				p. c.			p. c.			
.....	19.27	- 2.0	-15.7	13.7	10.3	Light straw.	None.	0.32	None...	2433	Slight excess cane sugar. Ash high. Doubtful.
.....	15.31	-10.4	-13.8	3.4	2.5	"	"	0.08	"	2438	Genuine.
.....	17.61	-14.4	-17.0	2.6	1.9	White..	Com. plete.	0.16	"	2445	"
.....	13.63	-10.4	-12.7	2.3	1.6	Light Brown.	"	0.08	"	2450	"
.....	13.60	-10.8	-15.6	4.8	3.6	Straw.	Partial.	0.26	"	2455	"
.....	19.27	-12.7	-16.2	3.5	2.7	"	None.	0.12	"	2456	"
.....	14.18	-13.9	-15.6	1.7	1.2	Light straw.	Partial.	0.06	"	2457	"
.....	19.26	-14.8	-15.8	1.0	0.7	Brown.	"	0.30	"	2461	Ash high. Otherwise genuine.
.....	18.71	-14.2	-17.8	3.6	2.7	"	Complete.	0.16	"	2465	Genuine.

DR. V. P. LAVALLEE, INSPECTOR.

.....	15.87	-16.5	-17.9	1.4	1.0	Brown.	Complete.	0.26	None.	60901	Genuine.
.....	17.60	-11.8	-13.7	1.9	1.4	Light straw.	None.	0.02	"	60902	"
.....	20.97	-10.5	-16.0	5.5	4.0	Dark straw.	"	0.30	"	60903	Ash high. Otherwise genuine.

J. C. ROULEAU, INSPECTOR.

.....	14.76	-21.0	-23.1	2.1	1.5	Brown.	Complete.	0.08	None.	39086	Genuine.
.....	21.54	-10.5	-12.1	1.6	1.2	Straw.	None.	0.06	"	39087	"
.....	14.18	- 3.6	-15.2	11.6	8.6	Light straw.	"	0.12	"	39088	"
.....	17.05	-14.8	-18.2	3.4	2.5	Straw.	"	0.06	"	39089	"
.....	15.60	-11.8	-15.2	3.4	2.5	"	"	0.12	"	39090	"
.....	15.31	- 9.2	-13.0	3.8	2.9	Light straw.	Partial.	0.26	"	39091	"
.....	16.86	+43.2	+40.5	2.7	..	Dark straw.	None.	0.30	"	39092	Ash high. Is not honey. No explanation from vendor or manufacturer.

6 GEORGE V, A. 1916

BULLETIN No. 289—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1913.							
Dec. 16	Strained Honey.	39093	Hayes Marchessault, West Shefford.	3 jars.	45	Eastern Fruit Co., Port.	
" 16	"	39094	W. E. Salmon, Lawrenceville.	1 jar.	97	F. Prefontaine, West Ely.	
" 16	"	39095	J. Moquin, Eastman	3 "	60	T. Upton Co., Ltd., Hamilton.	L. Chaput fils & Cie, Montreal.
" 17	"	39096	Nelson, Mitchell & Co., Granby.	3 "	90	"	
1914.							
Jan. 13	"	39097	E. Gagné, St. Joseph, Be.	3 jars.	45	Eastern Fruit Co., Port.	A. Carrier & fils, Levis.
" 14	"	39098	J. Gagné, St. George, Be.	3 "	75	"	D. Morin & Cie, reg., Quebec.

## DISTRICT OF ARGENTEUIL, TWO MOUNTAINS &amp; TERREBONNE—

1913.							
Dec. 6	Honey	2337	Pierre Simard, St. Jerome, P.Q.	1 jar.	30	National Produce Co., Montreal.	
" 12	"	2333	Leander Paquin, St. Jerome, P.Q.	1 lb.	15	Uptons	
" 19	"	2339	Gideon Côté, St. Agathe des Monts.	2½ lbs.	45	Unknown	
" 19	"	2340	Mde. F. D. Hall, St. Agathe des Monts.	1½ "	40	White Packing Co.	

## DISTRICT OF MONTREAL—

Dec. 3	Honey	58676	C. E. Oliver, 1798 St. Lawrence Boulevard, Montreal.	3 jars.	45		Hudon Hobert & Cie., Montreal.
" 9	"	58677	D. Hadden, Rushbrooke St., Montreal.	3 "	60	Wagstaffe Ltd., Hamilton.	
" 9	"	58678	Thos. K. T. Stone, 627 Wellington St., Montreal.	3 "	45		McNaughton, Glengarry, Ont.
11	"	58679	N. Fortin, 80 Coleraine St., Montreal.	1 tin.	30	David & Frère Maisonneuve St., Montreal.	
8	"	58680	J. J. Blair & Co., 113 Bernard Ave., Montreal.	3 jars.	75		A. J. Hood, Montreal.

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report (Is not an expression of opinion).	Results of Analysis										No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Polarization at 20°c.			Cane Sugar by Clerget Formula.	Physical Characteristics.		Total Ash.	Artificial Invert Sugar, Aniline Acetate and Fehle Reagents.			
		Direct.	Invert.	Difference.		Colour.	Granulation.					

## Concluded.

	p.c.					p.c.		p.c.			
.....	16.28	+15.9	+11.0	4.9	....	Straw.	Partial.	0.30	None...	39093	Ash high. Is not honey. Vendors confirm statements of inspector.
.....	7.33	- 7.5	-18.5	11.0	8.0	Light straw.	None.	0.04	"	39094	Genuine.
.....	17.10	-16.8	-17.0	0.2	0.1	Brown.	Partial.	0.16	"	39095	"
.....	17.08	-16.8	-17.8	1.0	0.8	Light straw.	"	0.04	"	39096	"
.....	14.77	+37.2	+33.4	3.8	....	Straw.	"	0.28		39097	Is not honey. No explanations from vendor or manufacturer.
.....	19.86	- 4.5	-13.2	8.7	6.5	Light straw.	None.	0.16	"	39098	Genuine.

## N. CADIEUX, TEMP. INSPECTOR.

.....	9.05	+60.3	- 2.6	62.9	47.4	Brown..	None.	0.12	None...	2337	Excess Cane Sugar. Is not honey. Manufacturers claim is sold as Honey-moon Syrup.
.....	14.75	-21.5	-26.6	5.5	4.0	Light brown.	Complete.	0.26	" ..	2338	Genuine.
.....	15.90	-18.2	-20.1	1.3	0.9	Light straw.	None...	0.04	" ..	2339	"
.....	14.91	-17.5	-21.8	4.3	3.2	"	" ..	0.20	" ..	2340	"

## D. J. KEARNEY, INSPECTOR.

.....	15.31	+42.2	+53.4	8.8	....	Straw ..	Partial..	0.26	None...	58676	Is not honey. Invoiced to vendor as Balaklava Honey
.....	11.91	-15.0	-20.3	5.3	3.9	"	None. .	0.12	" ..	58677	Genuine.
.....	13.62	-12.9	-14.5	1.6	1.2	"	Partial..	0.10	" ..	58678	"
Purchased as Honey Syrup.	19.84	+47.5	+ 2.0	45.5	30.4	Brown..	None...	0.08	" ..	58679	Excess Cane Sugar. Sold as syrup. Is not honey.
.....	22.64	-14.5	-17.9	3.4	2.5	Straw ..	Partial..	0.16	" ..	58680	Genuine.

6 GEORGE V, A. 1916

BULLETIN No. 289—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents	Manufacturer.	Furnisher.

## DISTRICT OF MONTREAL—

1914.							
Jan.	5	Honey. ....	58681 D. Demetelin, 144 St. Antoine St., Montreal.	3 jars.	45		
"	12	" .....	58682 A. A. Collins, 399a St. Antoine St., Montreal.	3 "	75		Whyte Packing Co.
"	12	" .....	58683 A. Theoret, 384 St. Antoine St., Montreal.	3 "	60		Bergeron Whis-sell & Co.
"	13	" .....	58684 Longeway & Levin, 320 St. Antoine St., Mon-treal.	1½ lbs.	30		Gunn Langlois..
"	16	" .....	58685 A. Legarde, 549 Notre Dame St. West, Mon-treal.	1½ "	21		A. J. McNaugh-ton, St. Raphael, West, Ont.
"	16	" .....	58686 Co-operative Grocery Co., 293 St. Antoine St., Montreal.	3 jars.	45		Gunn Langlois..
"	16	" .....	58687 E. Rochon, 697 Notre Dame St. West, Mon-treal.	1½ lbs.	30		" .....

## DISTRICT OF VALLEYFIELD—

Jan.	26	Honey.. ....	58519 L. Moreau, St. Johns, P.Q.	3 jars.	60	T. Upton & Co., Hamilton.	
"	26	" .....	58520 W. R. Simpson, St. Johns, P.Q.	3 "	75		Unknown .....
"	26	" .....	58521 A. L. Duhaime, St. Johns, P.Q.	1½ lbs.	26		" .....
"	26	Honey Moon Syrup.	58522 M. A. Comtois, St. Johns, P.Q.	2½ "	30		Nat. Produce Co., Montreal.
"	28	Honey.. ..	58523 J. G. Leonard, Beau-harnois.	1½ lb.	21		Gunn, Langlois, Montreal.
"	28	" .....	58524 J. L. E. Guimond, Beau-harnois.	3 jars	90	Chas. O. Granberg, Beauharnois.	

## DISTRICT OF OTTAWA—

1913.							
Dec.	8	Strained Honey.....	59212 W. West, Almonte.....	3 jars	60	The Bowes Co., Ltd., Toronto.	Manufacturers..
"	8	" .....	59213 G. M. Gemmill, Al-monte.	1 jar..	65	Mr. Patterson.....	Manufacturer ..
"	9	" .....	59214 S. Pilon, Rockland....	3 jars	75	Unknown .....	
"	10	" .....	59215 John H. Shaw, Shaw-ville P. Q.	2 "	40	R. McJanet, Yarn, P.Q.	Manufacturer .



## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report. (Is not an expression of opinion.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst	
	Water.	Polarization at 20°c.			Cane Sugar by Clerget Formula.	Physical Characteristics.		Total Ash.			Artificial Invert Sugar. Aniline Acetate and Fische Reagents.
		Direct.	Invert.	Difference.		Colour.	Granulation.				

## Concluded.

	p. e.				p. e.			p. e.		
.....	15.34	+37.5	+32.9	4.6	.	Straw...	Partial.	0.10	None...	58681 Is not honey.
.....	11.91	-13.4	-17.0	3.6	2.7	"	None...	0.06	"	58682 Genuine.
.....	14.47	-12.1	-16.7	4.6	3.4	Light straw.	"	0.06	"	58683 "
.....	14.47	-17.6	-19.8	2.2	1.5	White..	Com- plete.	0.10	"	58684 "
Vendor did not know if honey was pure.	15.34	-12.1	-12.3	0.2	0.1	"	"	0.14	"	58685 "
.....	13.65	-14.1	-17.4	3.3	2.4	"	"	0.20	"	58686 "
.....	15.89	-17.6	-18.9	1.3	0.9	"	"	0.06	"	58687 "

## D. J. KEARNEY, ACTING INSPECTOR.

.....	17.61	-13.5	-16.0	2.5	1.9	Brown..	None...	0.06	None...	58519 Genuine.
.....	14.76	-19.8	-20.0	0.2	0.1	"	"	0.03	"	58520 "
.....	12.47	-15.2	-16.3	1.1	0.8	White..	Com- plete.	0.04	"	58521 "
This sample purchased as Honey Moon Syrup.	23.20	+63.0	-	4.9	67.9	51.1	Brown..	None...	0.06	58522 Excess Cane Sugar Sold as syrup.
.....	15.31	-18.2	-19.8	1.6	1.2	White..	Com- plete	0.14	"	58523 Genuine.
.....	15.34	-21.8	-24.2	2.4	1.8	Brown..	Partial..	0.06	"	58524 "

## J. A. RICKEY, INSPECTOR.

.....	17.08	-16.8	-18.9	1.1	0.8	Straw.	None...	0.04	None...	59212 Genuine.
.....	17.00	-13.3	-15.2	1.9	1.4	Light Straw	"	0.10	"	59213
Bought in bulk and filled in jars by vendor.	15.33	-15.2	-17.8	2.6	1.9	White..	Com- plete	0.08	"	59214
.....	11.30	-10.2	-14.5	4.3	3.2	"	"	0.16	"	59215 "

6 GEORGE V, A. 1916  
BULLETIN No. 289—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF OTTAWA—

1913.							
Dec. 11	Strained Honey.	59216	Alex. Maclaren, Wakefield, P.Q.	3 jars	60	T. Upton Co., Hamilton.	
" 16	"	59217	The Civil Service Co-operative Supply Assn., Ottawa.	3 "	75	Wagstaffe Limited, Hamilton.	Manufacturers..
" 17	"	59218	S. Diamond, Friel St., Ottawa.	1½ lb.	23	Lerner & Son, Ottawa.	" ..
" 17	"	59219	Max Aronson, 484 St. Patrick St., Ottawa.	"	23		P. Adelstein, Montreal.
" 17	"	59220	B. Silver, 263 Clarence St., Ottawa.	2½ lbs.	38	E. M. Lerner & Son, Ottawa.	Manufacturers..
" 17	"	59221	M. Merson, 264 Rideau St., Ottawa.	1½ lb.	20		P. Adelstein Montreal.
" 17	"	59222	M. T. Pinkerton, Rideau St., Ottawa.	3 jars	75	Unknown	John Balfour, Toronto.
" 18	"	59223	E. McEwen, Leduc and Charle, Hull, P.Q.	2 lbs.	40	Moyneurs, Ottawa.	

## DISTRICT OF KINGSTON—

Dec. 8	Honey	61001	James Redden, Kingston.	3 jars	51	J. Coon, Morton	
" 8	"	61002	James Crawford, Kingston.	3 "	51	M. Osser, Killer	
" 8	"	61003	W. Davies, Kingston.	3 "	75		J. Y. Parkhill, Kingston.
" 8	"	61004	W. E. Hopinson Bros., Kingston.	3 "	75	Gunn's Ltd., Toronto	
" 8	"	61005	Geo. Gibson, Kingston.	3 "	60	Wagstaffe, Hamilton	
" 8	"	61006	J. R. B. Gage, Kingston.	3 "	75	Morrison, Cataraqui	
" 9	"	61007	G. W. Boyes, Napanee.	3 "	75	Gunns, Toronto.	
" 9	"	61008	S. R. Artis, Belleville.	3 "	75	Wagstaffe, Hamilton.	
" 10	"	61009	W. Burnet, Cobourg.	3 "	30	J. H. Parsons, Osaca.	
" 10	"	61010	E. Guillet, Cobourg.	3 "	60	"	
" 10	"	61011	T. R. Harvey, Cobourg.	3 "	75	"	
" 10	"	61012	Estate H. Crozier, Cobourg.	3 "	45	"	

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report. (Is not an expres- sion of opinion.)	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Polarization at 20 c.				Cane Sugar by Clerget Formula.	Physical Characteristics.		Total Ash.	Artificial Invert Sugar, Aniline Acetate and Fich- Reagents.			
	Water.	Direct.	Invert.	Difference.		Colour.	Granulation.					
<i>Concluded.</i>												
	p. c.				p. c.			p. c.				
. . . . .	11.32	-10.8	-18.7	6.9	5.2	Light Straw	Partial..	0.24	None ..	59216	Genuine.	
Labelled guaran- teed Pure Clover Honey.....	16.46	-10.5	-16.7	6.2	4.7	"	None...	0.04	" ...	59217	"	
Buckwheat Honey.....	17.49	-18.2	-18.9	0.7	0.5	Brown..	Partial..	0.08	" ...	59218	"	
.....	13.33	-16.4	-22.5	6.1	4.5	" ..	Com- plete	0.06	Present.	59219	Artificial invert sugar. P. Adel- stein states honey manufactured by T. Schachter, Montreal, and sold as compound honey.	
Buckwheat Honey.....	19.27	-13.8	-22.5	8.7	6.5	" ..	None...	0.12	None...	59220	Genuine.	
.....	17.61	-22.8	-23.3	0.5	0.3	" ..	Partial..	0.32	Present.	59221	Ash high. Artifi- cial invert sugar. Same explanation as in 59219.	
.....	19.71	-16.8	-19.1	2.3	1.7	Light Straw	None...	0.30	None...	59222	Genuine.	
.....	15.89	-10.2	-20.0	9.8	7.4	"	Com- plete	0.06	" ...	59223	"	

## JAS. HOGAN, INSPECTOR.

.....	15.34	-11.8	-12.6	0.8	0.6	Light Straw	None...	0.08	None...	61001	Genuine.
.....	17.00	-12.0	-17.0	5.0	0.3	Brown..	" ...	0.16	" ...	61002	"
.....	12.48	-12.4	-13.7	1.3	0.9	White..	Com- plete	0.26	" ...	61003	"
.....	17.57	-11.7	-13.4	1.7	1.2	Light Straw	Partial..	0.34	" ..	61004	Ash high. Other- wise genuine.
.....	15.33	-16.2	-21.2	5.0	3.8	"	" ..	0.14	" ...	61005	Genuine.
.....	17.59	-18.2	-20.2	2.0	1.6	"	" ..	0.36	" ...	61006	Ash high. Other- wise genuine.
.....	15.34	-15.0	-16.5	1.5	1.1	Light straw.	Partial..	0.04	" ...	61007	Genuine.
.....	12.48	-13.0	-17.4	4.4	3.3	"	None...	0.14	" ..	61008	"
.....	8.47	-10.0	-15.1	5.1	3.9	"	"	0.30	" ...	61009	Ash high Other wise Genuine.
.....	12.48	-13.0	-17.6	4.6	3.4	White	Comp- lete.	0.14	" ...	61010	Genuine.
.....	13.05	-10.5	-20.9	10.4	7.8	Light straw.	None...	0.04	" ...	61011	"
.....	8.45	-13.5	-16.7	3.2	2.3	"	Partial.	0.10	" ...	61012	"

6 GEORGE V, A. 1916

BULLETIN No. 289—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher
DISTRICT OF TORONTO—							
1913.							
Nov. 24	Honey.	57532	The Bowes Co., Ltd., 76 Front st. east, Tor- onto.	3 jars.	30	Vendors	.....
" 24	"	57533	Rutherford, Marshall, Ltd., 68 Front st. east, Toronto.	3 "	30	"	.....
" 24	"	57534	J. J. Fee, 64 Front st. east, Toronto.	3 "	30	Vendor	.....
" 24	"	57535	White & Co., Ltd., Church and Front sts., Toronto.	3 "	25	Vendors	.....
" 25	"	57536	H. G. Sibbald, 111 Con- cord ave., Toronto.	3 "	30	Vendor	.....
" 25	"	57537	E. E. Martin, 654 Col- lege, Toronto.	3 "	30	A. Moyer, Toronto.	.....
" 25	"	57538	Fred Coward, 402 Spa- dina ave., Toronto.	3 "	30	Vendor	.....
" 25	"	57539	T. Eaton Co., Ltd., Yonge and Queen sts., Toronto.	3 "	30	Vendors	.....
" 31	"	57541	E. Grainger & Co., 1360 Yonge st., Toronto.	3 "	30	"	.....
1914.							
Jan. 2	"	57542	J. S. Kyle, Oshawa....	3 "	45	.....	Eby, Blain, Ltd., Toronto.
" 2	"	57543	H. A. Ross, Oshawa. .	1 "	25	Alex. Smith. End field.	.....
" 2	"	57591	McDowell & Morris, Oshawa.	3 "	57	The Upton Co., Ltd., Hamilton.	.....

## DISTRICT OF HAMILTON—

1913.							
Dec. 2	Honey.	59841	W. A. McClean, Owen Sound.	3 jars.	45	H. S. Schowell, Owen Sound.	
" 3	"	59842	W. J. Ward, Owen Sound.	2 "	40		Unknown
" 5	"	59843	The Guelph Co-Op. Asscn., Ltd., Guelph.	3 "	30	Geo. Skinner, Guelph.	
" 5	"	59844	Hood & Benallick, Guelph.	3 "	30	F. W. Krause, Guelph.	
" 5	"	59845	A. J. Groen, Guelph.	3 "	30	G. A. Coom, Guelph.	
" 9	"	59846	Chas. McCausland, Paris	1 "	25	Alex. Taylor, Paris.	

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.								Remarks and Opinion of the Chief Analyst.
	Water.	Polarization at 20°c.		Cane Sugar by Clerget's Formula.	Physical Characteristics.		Total Ash.	Artificial Invert Sugar, Aniline Acetate and Fehle Reagents.	
		Direct.	Invert.		Colour.	Granulation.			
								No. of Sample.	

## H. J. DAGER, INSPECTOR.

	p. c.			p. c.			p. c.		
Labelled. Bowes Pure Honey.	17.59	-19.0	-21.8	2.8	2.1	Light straw.	0.04	None...	57532 Genuine.
Labelled. Guaranteed Pure Honey.	15.90	-16.0	-19.1	3.1	2.3	"	0.22	"	57533 "
Labelled. Pure Honey.	15.89	-15.2	-18.7	3.5	2.6	"	0.04	"	57534 "
" ..	15.31	-15.7	-19.8	4.1	3.0	"	0.42	"	57535 Ash high. Otherwise Genuine.
Labelled. Finest quality pure Clover Honey.	11.32	-17.2	-19.6	2.4	1.8	"	0.04	"	57536 Genuine.
Labelled. Pure Honey.	17.10	-16.8	-19.7	2.9	2.1	"	0.08	"	57537 "
Labelled. "Standard" Brand Pure Honey. Guaranteed.	17.61	-10.8	-17.3	6.5	4.9	"	0.04	"	57538 "
.....	17.60	-13.9	-16.9	3.0	2.2	"	0.08	"	57539 "
Labelled. Pure Extracted Honey.	12.50	-13.2	-14.6	1.4	1.0	White.	0.20	"	57541 "
Labelled. Finest Quality "Ancient" Brand. Pure White Clover Honey.	15.31	-14.8	-17.6	2.8	2.1	"	0.08	"	57542 "
.....	19.27	-17.5	-18.7	1.2	0.9	Light straw.	0.04	"	57543 "
Labelled. Up-ton's Pure Clover Honey.	18.73	-18.2	-20.0	1.8	1.3	"	0.10	"	57591 "

## H. J. DAGER, ACTING INSPECTOR.

.....	17.00	-13.8	-17.6	3.8	2.8	Light straw	0.06	None...	59841 Genuine.
.....	17.59	-10.5	-17.7	7.2	5.4	"	0.16	"	59842 "
.....	11.34	-8.9	-16.5	7.6	5.7	"	0.12	"	59843 "
Labelled Pure Honey.	16.46	-12.5	-15.1	2.6	1.9	"	0.28	"	59844 "
.....	12.50	-9.4	-17.2	7.8	5.8	"	0.02	"	59845 "
.....	15.31	-12.5	-16.9	4.4	3.3	Straw.	0.06	"	59846 "

6 GEORGE V, A. 1916

BULLETIN No. 289—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF HAMILTON—

1913.							
Dec. 10	Honey.....	59847	C. W. Grantham, Brantford.	3 jars.	45	.....	Unknown. ....
" 10	" .....	59848	A. Lundy, Brantford...	1 "	25	F. Davis, Brantford.	.....
" 17	" .....	59849	W. R. Budge, 25 York St., Hamilton.	1 "	20	M. B. Smithy, Grimsby.	.....
" 17	" .....	59850	Peebles, Hobson & Co., Ltd., King & McNabb Sts., Hamilton.	1 "	20	Vendors.	.....
" 17	" .....	59851	A. G. Bain & Co., 89 King St. East, Hamilton.	1 "	25	J. E. Zimmermann, Beamsville.	.....
" 17	" .....	59852	W. J. O'Brien, 94 James St. North, Hamilton.	1 "	20	Kenney Bros., Lowville.	.....

## DISTRICT OF WINDSOR—

Dec. 5	Honey.....	54443	J. J. Alexander, London East.	3 jars.	30	F. J. Miller, London.	.....
" 5	" .....	54449	Wm. Hayes, London East.	3 "	30	" " "	.....
" 9	" .....	54462	J. P. Rogers Co., St. Mary's.	3 "	30	" " "	.....
" 10	" .....	54477	A. Beattie & Co., Stratford.	3 "	75	Jas. Baxter.....	.....
" 11	" .....	54479	Chas. S. Andrews, Seaforth.	3 "	90	Mr. Hoag, Seaforth.	.....
" 11	" .....	54489	M. Williams, Seaforth.	3 "	75	.....	Wm. Hartly, Seaforth.
" 11	" .....	54492	Cardno Bros., Seaforth.	3 "	75	W. D. Hoag, Seaforth.	.....
" 12	" .....	53601	J. P. Sheppard & Co., Clinton.	3 "	45	Isaac Dodd, Clinton.	.....
" 12	" .....	53605	W. J. O'Neil, Clinton.	3 "	25	Miss A. McFarlane.	.....
" 16	" .....	53610	Geo. Miller, London....	3 "	40	E. M. Husband, Delaware.	.....
" 16	" .....	53611	J. A. Kell, Lambeth....	3 "	25	W. J. Campbell, Lambeth.	.....
" 16	" .....	53613	Earle & Son, Lambeth	3 "	55	E. Bainard, Lambeth.	.....

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Inspector's Report. (Is not an expression of opinion).	Water.	Polarization at 20°c.			Cane Sugar by Clerget Formula.	Physical Characteristics.		Total Ash.	Artificial Invert Sugar, Aniline Acetate and Fehle Reagents.		
		Direct.	Invert.	Difference.		Colour.	Granulation.				

*Concluded.*

	p. c.				p. c.			p. c.		
Labelled Choice Extracted Honey from Vaux Hall Aparies. J. J. Miller, Lon- don, Ont.	16.46	-11.8	-15.7	3.9	2.9	.....	Partial.	0.14	None.	59847 Genuine.
Labelled pure ex- tracted.	15.31	-16.8	-20.0	3.2	2.4	White.	Com- plete.	0.20	"	59848 "
.....	9.92	-11.9	-19.3	7.4	5.5	"	"	0.28	"	59849 "
Labelled premier clover honey.	12.49	-16.5	-17.0	0.5	0.3	Light straw.	Partial.	0.32	"	59850 Ash high. Other wise genuine.
.....	15.31	-15.4	-18.4	3.0	2.2	"	None.	0.08	"	59851 Genuine.
Extracted honey, warranted pure, the bees own honey.	14.75	-15.5	-19.5	4.0	3.0	"	"	0.04	"	59852 "

## JNO. TALBOT, INSPECTOR.

Labelled Choice Extracted Honey.	15.31	-13.0	-17.4	4.4	3.3	Light straw.	None.	0.06	None.	54443 Genuine.
" " "	14.19	-14.4	-18.5	4.1	3.0	"	Partial.	0.16	"	54449 "
" " "	15.89	-15.8	-18.8	3.0	2.2	"	"	0.10	"	54462 "
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54477*
.....	13.91	-19.0	-20.9	1.9	1.4	Light straw.	Partial.	0.08	None.	54479 Genuine.
.....	15.31	-17.8	-18.7	1.0	0.7	White.	Com- plete.	0.10	"	54489 "
.....	15.34	-15.2	-17.8	2.6	1.9	Light straw.	None.	0.18	"	54492 "
.....	15.31	-14.3	-16.8	2.5	1.8	"	Partial.	0.20	"	53601 "
.....	14.19	-10.8	-14.0	3.2	2.4	"	"	0.12	"	53602 "
.....	17.00	-9.0	-16.8	7.8	5.8	Straw.	None.	0.20	"	53610 "
Labelled Pure Honey.	14.19	-9.8	-18.2	8.4	6.3	Light straw.	Partial.	0.20	"	53611 "
Labelled Pure Extracted Honey.	17.00	-14.0	-16.8	2.8	2.1	"	"	0.02	"	53613 "

\* Both samples broken in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vender.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vender.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MANITOBA—

1913.							
Dec.	10	Honey. ....	53228 The Jobin Marrin Co., 3 bots. Ltd., Winnipeg.	55		Foster Holterman, Ltd., Brantford, Ont.	
"	11	"	53229 F. Fawley, Notre Dame 3 Ave., Winnipeg.	75		T. Upton Co., Ham- ilton, Ont.	
"	12	"	53230 H. Thompson, 577 Sar- 3 gent Ave., Winnipeg.	75		" "	
"	15	"	53231 Horners Busy Corner, 3 Brandoa.	75		Foster Holterman, Brantford.	
"	15	"	53232 Carrick & Clements, 3 Brandon.	75		" "	
"	15	"	53233 J. F. Price, Brandon... 3	75			
"	16	"	53234 McDonald & Forman, 3 Brandon.	75		Foster Holterman, Brantford.	
"	16	"	53235 Sutherland & Robertson, 3 Brandon.	120		Pacific Coast Syrup Co.	
"	18	"	53236 J. Donnelly, Norwood 3 Grove.	75		Foster Holterman, Ltd., Brantford.	
"	18	"	53237 W. J. Kennedy, Nor- 3 wood Grove.	90		The White Star Mfg. Co., Winnipeg.	
"	19	"	53238 J. A. MacDowell, Por 3 tage Ave., Winnipeg.	75		G. E. Saunders, Mil- ton, Ont.	
"	19	"	53239 " " 3	60		The T. Upton Co., Hamilton, Ont.	

## DISTRICT OF ALBERTA—

Dec	1	Honey. . . .	51801 Hallier & Aldridge, Ed- 3 bots. monton.	90		A. E. Potter, Ltd....	
"	1	"	51802 J. H. Morris & Co., Ed- 3 monton.	105		Chivers & Sons, Ltd., Kitsou, Cambridge, Eng.	
"	2	"	51803 The Acme Co, Edmon- 3 ton.	60		Upton's, Hamilton, Ont.	
"	2	"	51804 A. McDonald & Co., Ed- 3 monton.	60		" "	
"	2	"	51805 Revillon Wholesale, Ed- 3 monton.	54		" "	
"	3	"	51806 Hudson Bay Co., Ed- 3 monton.	120		Pacific Coast Syrup Co., Seattle.	
"	4	"	51807 Montgomery & West 3 Wetaskiwin.	60		Upton's, Hamilton, Ont.	
"	4	"	51808 Aboussafy & Murray 3 Wetaskiwin.	70		" "	
"	5	"	51809 F. E. McLeod, Lacombe 3	150		Balfour, Smev & Co., Hamilton, Ont.	
"	11	"	51810 S. J. Freeze, Calgary . 3	60		Pacific Coast Syrup Co., Seattle.	
Dec.	11	"	51811 Hudson Bay Co., Cal- 3 gary.	90		Pacific Coast Syrup Co., Seattle.	
"	12	"	51812 Pryce, Jones (Canada) 3 Ltd., Calgary.	135		" "	



SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report. (Is not an expres- sion of opinion).	Results of Analysis.										Remarks and Opinion of the Chief Analysis.
	Water.	Polarization at 20°c.			Cane Sugar by (Claret Formula.	Physical Characteristics.		Total Ash.	Artificial Invert Sugar, Aniline Acetate and Fehle Reagents.	No. of Sample.	
		Direct.	Invert.	Difference.		Colour.	Granulation.				
A. C. LARIVIERE, INSPECTOR.											
	p. c.				p. c.			p. c.			
Pride of Canada.	14.77	-16.5	-19.0	3.5	2.6	White..	Com- plete.	0.10	None...	53228	Genuine.
.....	14.77	-12.4	-18.5	6.1	4.5	Straw..	Partial..	0.20	"...	53229	"
.....	15.33	-14.6	-17.4	2.8	2.1	" ..	" ..	0.12	" ..	53230	"
.....	15.31	-15.2	-18.4	3.2	2.4	White..	Com- plete.	0.04	" ..	53231	"
.....	14.75	-15.8	-18.2	2.4	1.8	" ..	" ..	0.14	" ..	53232	"
.....	12.50	-14.4	-16.4	2.0	1.5	" ..	" ..	0.10	" ..	53233	"
.....	14.19	-15.8	-18.9	3.1	2.1	" ..	" ..	0.12	" ..	53234	"
.....	17.65	-11.5	-17.6	6.1	4.5	Brown..	Partial..	0.08	" ..	53235	Sold as crushed honey. Genuine.
.....	9.92	-17.5	-20.0	2.5	1.8	White..	Com- plete.	0.20	" ..	53236	Genuine.
.....	11.89	-15.0	-18.9	3.9	2.9	Straw..	Partial..	0.18	" ..	53237	"
.....	15.89	-17.2	-18.7	1.5	1.1	White..	Com- plete.	0.12	" ..	53238	"
.....	11.34	-15.3	-17.6	2.3	1.7	Light straw.	Partial..	0.10	" ..	53239	"

A. W. R. MARKLEY, INSPECTOR.

.....	13.91	-14.3	-15.9	1.6	1.2	Light straw.	None...	0.18	None...	51801	Genuine.
.....	14.19	-11.2	-17.8	6.6	4.9	Brown..	" ..	0.20	" ..	51802	"
.....	15.89	-21.3	-25.0	4.7	3.5	" ..	Partial..	0.18	" ..	51803	"
.....	17.59	-21.3	-22.0	0.7	0.5	" ..	" ..	0.08	" ..	51804	"
.....	10.75	-12.9	-19.4	6.5	4.9	Straw..	" ..	0.06	" ..	51805	"
.....	17.02	-14.0	-16.0	2.0	1.5	Light straw.	" ..	0.18	" ..	51806	Sold as crushed honey. Genuine.
.....	17.05	-14.7	-19.0	4.3	3.2	Brown..	" ..	0.20	" ..	51807	Genuine.
.....	17.02	-15.3	-18.9	3.6	2.7	White..	" ..	0.10	" ..	51808	"
.....	11.91	-15.3	-16.5	1.2	0.9	" ..	" ..	0.14	" ..	51809	"
.....	11.30	-12.3	-17.8	3.0	2.2	Light straw.	None...	0.22	" ..	51810	"
.....	19.28	-12.7	-18.9	6.6	4.9	Straw..	None...	0.30	" ..	51811	Ash high. Other- wise genuine.
.....	11.91	-12.7	-21.0	8.3	6.2	Light straw.	Partial..	0.18	" ..	51812	Sold as crushed honey. Genuine.

6 GEORGE V, A. 1916

BULLETIN No. 289—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vender.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vender.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ROCKY MOUNTAINS—

1913.							
Dec.	2	Honey.....	49996 R. G. Ritchie, Cascade, B.C.	3 jars.	90	O. L. Charlton, Vanc., B.C.	.....
"	4	"	50005 N. L. McInnes & Co., Grand Forks, B.C.	3 "	90	Kelly Confection Co. Vanc., B.C.	.....
"	9	"	50011 McKim & Le Roy, Grand Forks, B.C.	3 "	120	Cal. Fruit Canners Association, San Francisco.	.....
"	4	"	50012 " "	3 "	255	Pacific Coast Syrup Co., San Francisco	.....
"	15	"	50018 Trail Grocery Company, Trail, B.C.	3 "	105	Chivers & Sons, Histon, Cambridge, Eng.	.....
"	17	"	50040 N. Laface, Rossland, B.C.	8 "	105	.....	Ramsay Bros., Vanc., B.C.
"	17	"	50041 T. P. Rogers, Rossland, B.C.	3 "	105	.....	Balfour Smye & Co., Hamilton.
1914.							
Jan.	3	"	50052 Christie & Benson, Nelson, B.C.	1 pail.	125	W. R. Devins, Heathcote, Ont.	.....
"	3	"	50053 " "	1 "	125	C. J. Devins, Thornbury, Ont.	.....
"	6	"	50054 D. E. Grabe, Ymir, B.C.	1 "	125	.....	Balfour Smye & Co., Hamilton.
"	7	"	50060 Salmo Trading Co., Salmo, B.C.	1 "	105	Kelly Confection Co. Vanc., B.C.	.....
"	9	"	50064 J. E. Read, Erie, B.C.	1 "	100	Vendor.....	.....

## DISTRICT OF VICTORIA—

1913.							
Dec.	9	Honey.....	57703 Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	3 bots.	75	W. R. Armstrong, North Saanish, B.C.	.....
"	9	"	57704 " " "	3 "	75	Pacific Coast Syrup Co., Seattle & Portland.	.....
"	9	"	57710 Copas & Young, 633 Fort St., Victoria, B.C.	3 "	75	Kelly Confection Co. Vanc., B.C.	.....
"	9	"	57711 " " "	1 tin.	45	Shafsbury Apiary, Te Aroia, New Zealand.	.....
"	11	"	57728 Acton Bros., 1317 Douglas St., Victoria, B.C.	3 pkgs	75	O. L. Carlton, Vanc. B.C.	.....
"	12	"	57732 Dixie H. Ross & Co., 1317 Govt. St., Victoria, B.C.	3 "	60	L. Noel & Sons, Ltd. London, Eng.	.....

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report. (Is not an expres- sion of opinion).	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analysis.
	Polarization at 20°c.				Physical Characteristics.		Total Ash.	Artificial Invert Sugar, Aniline Acetate and Fische Reagents.				
	Water.	Direct.	Invert.	Difference.	Cane Sugar by Clerget Formula.	Colour.			Granulation.			
THOS. PARKER, INSPECTOR.												
	p.c.				p.c.			p.c.				
.....	12.50	-19.8	-22.0	2.2	1.6	White..	Com- plete.	0.20	None...	49996	Genuine.	
.....	17.61	-15.8	-20.1	4.3	3.2	Brown..	None...	0.18	" ...	50005	"	
" Delmonte "....	14.75	-18.8	-20.0	1.2	0.9	" ..	Com- plete.	0.10	" ...	50011	"	
" White Rose "...	17.10	-16.2	-22.2	6.0	4.0	" ..	None...	0.04	" ..	50012	"	
" English ".....	16.46	-13.8	-18.5	4.7	3.5	" ..	" ...	0.24	" ...	50018	"	
White Clover...	16.73	+23.0	+14.5	8.5	....	L i g h t straw.	" ...	0.10	" ...	50040	Is not honey. Manufacturers claim sample made in 1911, be- fore having know- ledge of the law regarding honey.	
.....	12.48	-11.8	-19.1	7.3	5.5	White..	Com- plete	0.28	" ...	50041	Genuine.	
.....	9.68	-17.7	-20.1	2.4	1.8	" ..	" ...	0.08	" ...	50052	"	
.....	12.48	-14.8	-17.9	3.1	2.1	Straw..	None...	0.16	" ...	50053	"	
.....	15.31	-15.8	-23.9	8.1	6.1	" ..	" ...	0.20	" ...	50054	"	
.....	14.75	-16.0	-17.9	1.9	1.4	Brown..	Partial.	0.20	" ...	50060	"	
.....	12.50	-12.3	-20.3	8.0	6.0	L i g h t straw.	None...	0.10	" ...	50064	"	
D. O'SULLIVAN, INSPECTOR.												
Pure Honey ....	17.10	-10.5	-14.6	4.1	3.0	Straw..	None...	0.22	None...	57703	Genuine.	
" Wild Rose " Brand.	19.27	-11.3	-19.0	7.7	5.8	Brown..	" ...	0.10	" ...	57704	"	
Kelly's Pure Honey.	17.61	-15.8	-19.3	3.5	2.6	" ..	" ...	0.22	" ...	57710	"	
Cotterells Ex-tracted Clover Honey.	13.61	-14.8	-18.0	3.2	2.4	Straw..	Partial.	0.04	" ...	57711	"	
" Nectar " Brand Honey.	17.02	-21.8	-26.4	4.6	3.4	" ..	" ...	0.08	" ...	57728	"	
Marboune honey	13.61	-13.5	-17.6	4.1	3.0	White..	Com- plete	0.24	" ...	57732	"	

6 GEORGE V, A. 1916

BULLETIN No. 289—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VICTORIA—

1913.							
Dec. 12	Honey. . . . .	57738	James Adam, 1023 Cook St., Victoria, B.C.	3 pkgs	75	F. J. Miller, London, Eng.	
" 15	" . . . . .	57739	"	3 "	75	"	
" 16	" . . . . .	57743	H. O. Kirkham, 741 Fort St., Victoria, B.C.	3 bots	60	Garcia Maggins Co., San Francisco, Cal.	
" 17	" . . . . .	57754	Henry W. Driver, 856 Yates St.	2 "	60	California Fruit Canners, San Francisco, Cal.	
" 18	" . . . . .	57758	Erskine & Co., 861 Johnston St., Victoria, B.C.	3 "	75	W. R. Armstrong, North Saanich, B.C.	
" 18	" . . . . .	57760	Fenerty Bros., Oak Bay Junction, B.C.	3 "	75	Kelly Confection Co., Vancouver, B.C.	

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

Inspector's Report. (Is not an expres- sion of opinion)	Results of Analysis.							Remarks and Opinion of the Chief Analyst.	
	Water.	Polarization at 20°C.			Cane Sugar by Clerget Formula.	Physical Characteristics.			Total Ash. Artificial Invert Sugar, Aniline Acetate and Fehle Reagents.
		Direct.	Invert.	Difference.		Colour.	tion.		

## Concluded.

	p.c.			p.c.		p.c.				
Pure extracted honey.	15.89	-14.8	-18.1	3.3	2.4	Light straw.	None...	0.04	None...	57738 Genuine.
Choice extracted honey.	14.75	-14.7	-17.1	2.4	1.8	"	"	0.06	"	57739 "
.....	16.46	-16.8	-17.1	0.3	0.2	Brown..	Partial	0.04	"	57743 "
"Del. Mont." Brand.	15.31	-13.8	-17.5	3.1	2.7	Straw..	"	0.08	"	57754 Sold as crushed honey. Genuine.
Pure honey.....	11.35	- 9.5	-12.6	3.7	2.1	"	None...	0.02	"	57758 Genuine.
Kelly's pure honey.	17.10	-16.0	-18.7	2.7	2.0	Brown..	"	0.04	"	57760 "
W.H. 1002										

W T B

## APPENDIX F.

## BULLETIN No. 290—COFFEE AND COFFEE SUBSTITUTES

OTTAWA, Oct. 3, 1914.

J. U. VINCENT, Esq.,  
Deputy Minister,  
Inland Revenue.

SIR,—I have the honour to hand you a report upon three hundred and thirty-nine (339) samples procured throughout the Dominion by our food inspectors in November, December and January last.

These have been supplied on demand for *Coffee*, or *Coffee Substitutes*. *Coffee Substitutes* are usually compounds consisting of varying percentages of Coffee with chicory or roasted grain or peas, or mixtures of these. Thirty samples (30) sold as coffee substitutes contain no coffee. The following is the record for articles sold as Coffee Substitutes.

Consisting of Coffee and Chicory .....	12 samples.
“ “ “ and cereals .....	24 samples.
“ roasted cereals only .....	30 samples.
Total .....	66 samples.

The articles mentioned are properly sold as coffee substitutes; or by such description of each as shall inform the purchaser fully regarding the article supplied to him.

Thirteen samples (13) are so-called Extracts of Coffee. Most of these contain the soluble matter of chicory; but as this collection was specially directed to examination of the solid article, a detailed study of Coffee Extracts is left for a later report. For the same reason no work has been done upon 5 samples of so-called Condensed Coffees, which were collected through mistakes on the part of our inspectors.

One hundred and ninety-nine (199) samples, sold as coffee, are found to be true to name, and are described as genuine in this report.

There remain fifty-six (56) samples to be considered. All of these were supplied to the inspector on a demand for *Coffee*. In eight (8) cases the amount of foreign matter is so small that it is reasonable to explain its presence as accidental. Very frequently the same mill is used in grinding alternately a pure coffee and a mixture, and in this way a trace of chicory may find its way into a sample intended to be coffee only. I have marked such cases as “doubtful”.

In forty-nine (49) instances notable amounts of foreign matter are present in samples offered as Coffee. This, of course, constitutes adulteration, and all these cases are judged to be adulterated in the sense that they contain foreign material, not declared by the vendor.

Among the defences set up by vendors of these articles the only one which can be recognized as having any validity is that many users of coffee prefer to have a small amount of chicory in their coffee, and have been known to complain of the unsatisfactory character (to them) of the article when it did not contain chicory. The retail dealer claims that he is required to add a small percentage of chicory in order to please his customers, and he becomes so habituated to supplying coffee mixed with chicory that he frequently forgets to mention the presence of this substance.

## SESSIONAL PAPER No. 14

This defence may be given some weight when a small percentage of chicory only is found. It is not, however, valid in law, and dealers must recognize that when coffee is asked for, only coffee should be supplied.

Of the Forty nine (49) samples in which foreign matter has been found, Nineteen (19) samples contain chicory only, and in the following (minimum) amounts. Owing to variability in the quality of chicory it is not possible to define exactly the amount added; and the amounts named below must be understood to mean that at least the percentage quoted has been added.

Containing	5	per cent	chicory	5	samples.
"	10	"	"	"	6
"	15	"	"	"	3
"	20	"	"	"	2
"	25	"	"	"	1
"	more than 25	"	"	"	2

The defence referred to may perhaps be granted some force up to 5 or possibly up to 10 per cent, chicory; but it is certainly not to be taken seriously when more than 10 per cent of chicory is present, without statement of the fact, as in eight (8) samples noted.

Thirty samples (30) of the forty-nine judged to be adulterated, contain roasted cereals, with or without chicory, as an adulterant. It is certain that no purchaser of coffee wishes roasted grain or roasted peas to be mixed with the article. The amounts of foreign matter in these Thirty (30) samples are found to be as follows:

Roasted grains, with or without chicory—					
at least	5	per cent	in		1 sample.
"	10	"	"	"	9
"	15	"	"	"	4
"	20	"	"	"	2
"	25	"	"	"	5
"	30	"	"	"	2
"	35	"	"	"	1
"	40	"	"	"	4
"	50	"	"	"	1
"	75	"	"	"	1

It has been clearly shown in many cases that the manufacturer supplied these articles to the retail vendor as mixtures or compounds, properly labelled; and at prices which could not but make the purchaser aware that he was dealing with a mixture. In all such cases, the responsibility rests with the retail vendor, who should have warned the customer that an article which was not pure coffee was being offered him. It would then remain for the purchaser to express his consent to the transaction, which would thus become legal. Otherwise, the purchaser is clearly defrauded, and the vendor makes himself *amenable* to a charge of selling adulterated goods.

A special variation occurs where the manufacturer offers an article with a specific name or brand, but without an explicit statement on the label or on his invoice to show that the article contains chicory or roasted grain. Usually the low price at which such an article is furnished gives the retail dealer to know that something other than pure coffee is present. In such case, should the retail dealer be under the impression that he was handling genuine coffee, he would of course be morally guiltless. Whether or not he could be held legally blameless would depend upon his having a warranty of genuineness as provided in Section 33 of the Act.

I beg to recommend publication of this report as Bulletin No. 290.

I have the honour to be, Sir,  
Your obedient servant,

A. McGILL,  
*Chief Analyst.*

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1914.							
Jan.	15	Coffee Substitute.	53846 Wm. Moore, Halifax, N.S.	1 lb.	25	A. Torrens, Halifax, N.S.	Mfr .....
"	16	Ground Coffee	53847 A. P. Torrens, Halifax, N.S.	1 "	40	H. Collings, London, Eng.	" .....
"	16	Coffee Substitute.	53848 " " "	1 "	40	Vendor .....	" .....
"	16	"	53849 A. L. Doyle & Co., Halifax.	1 "	30	Vendors .....	" .....
"	16	Ground Coffee	53850 John Tobin & Co., Halifax.	1 "	37	" .....	" .....
"	16	Coffee Substitute.	53851 " " "	1 1/2 "	42	Canadian Postum Cereal Co., Windsor, Ont.	Mfrs .....
"	19	Ground Coffee	53852 John P. Mott & Co., Halifax.	1 "	26	Vendors .....	" .....
"	19	Coffee Substitute.	53853 " " "	1 "	22	" .....	" .....
"	22	Ground Coffee	53854 Canada Food Co., Halifax.	1 "	35	Chase & Sanborn, Montreal, P.Q.	Mfrs .....
"	22	Coffee Substitute.	53855 Wentzells, Ltd., Halifax.	1 "	35	A. P. Torrens, Halifax, N.S.	Mfr .....
"	22	Ground Coffee	53856 E. W. Crease & Son, Halifax.	1 "	40	The Esterbrooks Co., St. John, N.B.	Mfrs .....
"	22	"	53857 A. J. Baker, Halifax...	1 "	40	Gorman, Eckart Co., Toronto.	" .....
"	23	"	53858 Bauld Bros., Ltd., Halifax.	1 "	33	Chase & Sanborn, Montreal.	" .....
"	23	Coffee Substitute.	53859 J. D. Stewart, Halifax.	1 "	80	A. P. Torrens, Halifax.	Mfr .....
"	23	Ground Coffee	53860 Cahill & Co., Halifax...	1 "	40	Thos. Wood Co., Boston, Mass.	Mfrs .....
"	23	"	53861 F. S. Short, Halifax...	1 "	40	T. H. Cochrane, Ottawa, Ont.	Mfr .....
"	27	"	53862 J. S. Creed, Halifax...	1 "	31	Thos. J. Lipton, Toronto, Ont.	" .....
"	27	"	53863 W. H. Schwartz & Son, Halifax.	1 "	27	Vendors .....	" .....
"	29	"	53864 Shand Bros., Windsor, N.S.	1 "	35	C. H. Cochrane, Ottawa.	Mfr .....
"	30	Coffee Substitute.	53865 S. Thompson, Dartmouth, N.S.	1 "	40	Chase & Sanborn, Montreal.	Mfrs .....

## DISTRICT OF NEW BRUNSWICK—

1913.							
Nov.	25	Ground Coffee.	59360 Guy H. Humphrey, St. John, N.B.	1 lb.	40	Vendor .....	" .....
"	26	"	59361 Dearborn & Co., St. John, N.B.	1 "	40	Vendors .....	" .....
"	28	"	59362 G. E. Barbour Co., Ltd., St. John, N.B.	1 "	40	" .....	" .....
Dec.	1	"	59363 2 Barkers Ltd., St. John, N.B.	1 "	37	Chase & Sanborn, Montreal.	" .....



## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		

## R. J. WAUGH, INSPECTOR.

.....	Chicory and Peas.	1-0151	Pre- sent.	About 64% coffee and 40% chicory and peas.	53846	Sold as a coffee substitute.
Sold as Mocha and Java.	Genuine.	.....	None.	.....	53847	Genuine coffee.
Sold as Club Blend.	Chicory	1-0128	"	About 75% coffee and 25% chicory.	53848	Sold as a coffee substitute.
.....	Roasted Grain.	1-0117	Pre- sent.	About 75% coffee and 25% roasted grain.	53849	" "
Sold as Royal Java.	Genuine.	.....	None.	.....	53850	Genuine coffee.
Labelled Postum Cereal.	Postum.	.....	Pre- sent.	Roasted wheat and molasses.	53851	Sold as a coffee substitute.
.....	Genuine.	.....	None.	.....	53852	Genuine coffee.
Sold as Compound	Chicory	1-0129	"	About 75% coffee and 25% chicory.	53853	Sold as a coffee substitute.
.....	Genuine.	.....	"	.....	53854	Genuine coffee.
Sample taken from bulk.	Chicory and Peas.	1-0136	Pre- sent.	About 75% coffee and 25% chicory and peas.	53855	Sold as a coffee substitute.
Labelled Red Rose Brand	Genuine	.....	None.	.....	53856	Genuine coffee.
Rideau Hall Brand.	"	.....	"	.....	53857	"
Labelled Seal Brand	"	.....	"	.....	53858	"
Taken from bulk.	Chicory and Peas.	1-0147	Pre- sent.	About 75% coffee and 25% chicory and peas.	53859	Sold as a coffee substitute.
.....	Genuine	.....	None.	.....	53860	Genuine coffee.
.....	"	.....	"	.....	53861	"
.....	"	.....	"	.....	53862	"
.....	"	.....	"	.....	53863	"
.....	"	.....	"	.....	53864	"
Labelled No. 1 Blend. Taken from bulk.	"	.....	"	.....	53865	"

## JNO. C. FERGUSON, INSPECTOR.

Humphrey's Coffee.	Genuine.	.....	None	.....	59360	Genuine Coffee.
Costa Rica Coffee.	"	.....	"	.....	59361	"
.....	"	.....	"	.....	59362	"
Choice fresh ground.	"	.....	"	.....	59363	"

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NEW BRUNSWICK—

1913.							
Dec.	1	Ground Coffee.	59364 James Moulson, St. John, N.B.	1 lb.	40	Vendor	
"	3	"	59365 W. A. Simonds, St. John, N.B.	1 "	40	Bower & Bartlett, Boston, Mass.	
"	3	"	59366 T. H. Estabrooks & Co., Ltd., St. John, N.B.	1 1/2 "	60	Vendors	
"	3	"	59367 H. W. Cole, Ltd., St. John, N.B.	1 "	30	"	
"	9	"	59368 W. C. Broadbent, St. John, N.B.	1 "	40	E. H. Smith Co., Boston, Mass.	
"	10	"	59369 Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	1 "	36	Chase & Sanborn, Montreal.	
"	17	"	59370 Fred. E. Rose, St. Stephen, N.B.	1 "	40	Vendor	
1914.							
Jan.	6	"	59371 M. E. Doohan, Fredericton, N.B.	1 "	40	"	
"	6	"	59372 C. H. Burt, Fredericton, N.B.	1 "	40	"	
"	7	"	59373 E. A. Burden, Woodstock, N.B.	1 "	40	"	
"	7	"	59375 B. H. Smith & Sons, Woodstock, N.B.	1 "	40	Vendors	
"	8	"	59376 B. Beveridge, Andover, N.B.	1 "	40	T. H. Estabrooks & Co., Ltd., St. John, N.B.	
"	13	"	59377 W. B. McKay & Co., Sussex, N.B.	1 "	40	Pure Gold Mfg. Co., Toronto, Ont.	
"	14	"	59378 Geo. A. Robertson, Moncton, N.B.	1 "	40	Vendor	
"	14	"	59379 D. A. McBeath, Moncton, N.B.	1 "	45	Gorman, Eckert & Co., Ltd., London, Ont.	
"	16	"	59383 J. B. Snowball Co., Ltd., Chatham, N.B.	1 "	40	Vendor	

## DISTRICT OF QUEBEC—

1913.							
Nov.	26	Coffee Substitutes.	59033 Endore Delisle, 2 Ave. Taschereau, Quebec.	1 lb.	40	Kearney Bros., Montreal.	
"	27	"	59034 L. Desgagne, 914 Rue St. Valier, Quebec.	1 "	40	Chase & Sanborn, Gagnon & Garent, Montreal.	
"	27	"	59035 " " "	1 "	40	Mint Bros., Toronto, Ont.	
Dec.	2	"	59036 Jno. Peltier, 185 Rue Massue, Quebec.	1 "	30	J. V. Boudreau, Mfr., Montreal.	
"	2	"	59037 " " "	1 "	40	"	
"	2	"	59038 J. B. Routier, 1023 Rue St. Valier, Quebec.	1 "	30	Unknown	Beland & Frey

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10 <sup>o</sup> Extract.	Iodine Re- action for Starch.		
Concluded.					
Moulson's Coffee.....	Genuine.....		None.....	59364	Genuine Coffee.
Red Shield Brand.....	".....		".....	59365	"
Red Rose Brand.....	".....		".....	59366	"
.....	".....		".....	59367	"
Excelsior Brand.....	".....		".....	59368	"
Seal Brand.....	".....		".....	59369	"
Standard Blend.....	".....		".....	59370	"
.....	".....		".....	59371	"
Special Blend.....	".....		".....	59372	"
Blend Acorn Brand.....	".....		".....	59373	"
.....	".....		".....	59375	"
.....	".....		".....	59376	"
Brand D.....	".....		".....	59377	"
.....	".....		".....	59378	"
Rideau Hall Coffee.....	".....		".....	59379	"
Mocha and Java.....	".....		".....	59383	"

F. X. W. E. BELAND, INSPECTOR.

.....	Genuine.....		None.....	56033	Genuine coffee.
.....	".....		".....	56034	"
.....	".....		".....	56035	"
Give as compound.....	Chicory and peas.....	1.0116	Pre- sent.	56036	Sold as a coffee sub- stitute.
.....	Chicory.....	1.0107	None.	56037	"
.....	Chicory and grain.....	1.0097	Pre- sent.	56038	"

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF QUEBEC—

1913.							
"	2	Coffee Substi-	56039 J. F. Ratte, 1170 Rue St. Valier, Quebec.	1 lb.	45	Chase & Sanborn, Montreal.	F. Ledroit & Frere.
"	3	"	56040 C. J. Carpenter, 1271 Rue St. Valier, Quebec.	1 "	45	" "	Whitehead & Turner.
"	3	"	56041 G. Gauvin, St. Valier and Lessage, Quebec.	1 "	30	Unknown.....	J. B. Reneaud....
"	3	"	56042 Cyrille Larose, 38 Rue Montminy, Quebec.	1 "	30	" .....	Bourboin.....
"	4	"	56043 Cantin & Frere, 271 Rue St. Joseph, Quebec.	1 "	45	Chase & Sanborn..	Mfr. ....
"	4	"	56044 J. D. Marier, 136 Rue D'Orchester, Quebec.	1 "	30	Unknown.....	Turcotte & Frere .
"	4	"	56045 " "	1 "	40	" .....	Litster, Toronto...
"	4	"	56046 Edmond Bilodeau, 230 Rue Prince Edouard, Quebec.	1 "	40	" .....	Turcotte & Frere..
"	4	"	56047 F. X. Goslin, 207 Rue de la Couronne, Quebec.	1 "	45	Chase & Sanborn..	Mfrs. ....
"	4	"	56048 " "	1 "	40	Litster, Toronto..	Mfr.....
"	4	"	56049 " "	1 "	30	Pure Gold Mfg. Co., Toronto.	.....
"	4	"	56050 " "	1 "	15	Canadian Postum.	.....
"	4	"	56051 W. Cantin, 133 Rue du Pont, Quebec.	1 "	40	Chase & Sanborn..	.....
"	4	"	56052 " "	1 "	30	Minto, Toronto....	.....

## DISTRICT OF EAST QUEBEC—

Dec.	26	Coffee .....	2401 D. Bouchard, St. Anne des Monts.	1 lb..	45	.....	W. D. Stroud & Son, Montreal.
"	26	" .....	2404 J. N. Keable, St. Anne des Monts.	1 .....	40	.....	" ..
"	27	" .....	2410 U. Pelletier, Cap Chat.	1 "	35	.....	" ..
"	27	Coffee Compound	2412 Emile Coté, Cap Chat.	1 "	35	F. F. Dalley & Co., Hamilton, Ont.	.....
"	29	" .....	2415 Cyril Charest, Matane	1 "	30	.....	A. B. Dupuis, Quebec.
"	29	Coffee .....	2418 L. J. Lavasseur, Matane	1 "	50	Chase & Sanborn, Montreal.	.....
"	29	" .....	2420 N. Ruel, Matane....	1 "	40	.....	White & Turner, Quebec.
"	29	" .....	2422 A. Bouchard, Matane..	1 "	49	.....	.....
"	30	Coffee Compound.	2425 P. A. Parent, Rivière Blanche	1 "	30	.....	W. Ewing, Montreal.

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Result of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		

*Concluded.*

.....	Genuine.....	1-0163	Pre- sent.	35 to 40% chicory and roasted grain.	56039	Genuine coffee.
.....	" .....	"	"	"	56040	"
.....	Chicory and grain	1-0159	"	100% roasted wheat and chicory.	56041	Sold as a coffee sub- stitute.
.....	Chicory and wheat	"	"	"	56042	"
.....	Genuine.....	"	None.	"	56043	Genuine coffee.
Give as compound.....	Chicory .....	1-0106	"	10 to 15% chicory.....	56044	Sold as a coffee sub- stitute.
.....	Genuine.....	"	"	"	56045	Genuine coffee.
.....	" .....	"	"	"	56046	"
.....	" .....	"	"	"	56047	"
.....	" .....	"	"	"	56048	"
Give as compound.....	Chicory and grain	1-0127	Pre- sent.	20 to 25% chicory and roasted cereal.	56049	Sold as a coffee sub- stitute.
" " .....	Postum.....	"	None	Roasted wheat and molasses. No caffeine.	56050	"
.....	Genuine.....	"	"	"	56051	Genuine coffee.
.....	" .....	"	"	"	56052	"

## ALP. PELLETIER, INSPECTOR.

.....	Genuine.....	"	None.	"	2401	Genuine coffee.
.....	" .....	"	"	"	2404	"
.....	" .....	"	"	"	2410	"
.....	Chicory and grain	1-0183	Pre- sent.	About 40% coffee and 60% chicory and grain.	2412	Sold as a coffee sub- stitute.
.....	" .....	1-0217	"	About 20% coffee and 80% chicory and grain.	2415	" "
.....	Genuine.....	"	None.	"	2418	Genuine coffee.
.....	" .....	"	"	"	2420	"
.....	Chicory .....	1-0116	"	15 to 20% chicory.....	2422	Sold as coffee. As such, is adulterated.
.....	Chicory and peas.	1-0153	Pre- sent.	About 60% coffee and 40% chicory and peas.	2425	Sold as a coffee sub- stitute.

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF EAST QUEBEC—

1914.							
Jan. 10	Coffee Compound.	2431	A. F. Bontin, St. Flavie.	1 lb.	40		J. B. Renaud & Cie, Quebec.
" 10	Coffee .. ..	2434	A. C. Landry, St. Flavie.	1 "	40		S. H. Ewing & Son, Montreal.
" 10	Coffee Substitute	2437	C. Bonville, St. Flavie.	1 "	10	Mokara Mil, Montreal.	
" 10	Coffee .. ..	2439	C. Leteque & Co., St. Flavie.	1 "	50		Drouin & frere, Quebec.
" 10	" .. ..	2442	B. St. Amand, St. Flavie.	1 "	40		T. H. Estabrook, St. John, N.B.
" 12	" .. ..	2446	A. Voyer, St. Flavie...	1 "	40		W. D. Stroud Montreal.
" 12	" .. ..	2448	A. Aubin, St. Flavie...	1 "	40		Litster, Toronto...
" 12	" .. ..	2449	Michaud & fils, St. Flavie.	1 "	45		Chase & Sanborn, Montreal.
" 13	" .. ..	2452	C. Berube, Rimouski.	1 "	50		T. Langlais, R. du Loup.
" 13	" .. ..	2453	Oc. Michaud, Rimouski.	1 "	45		

## DISTRICT OF THREE RIVERS—

1913.							
Nov. 22	Coffee .. ..	58992	W. Brissette, St. Felix.	1 lb.	40		
" 22	" .. ..	58993	Albert Bellerose, "	1 "	40		
" 22	" .. ..	58994	G. H. Read, "	1 "	40	Chase & Sanborn, Montreal.	
" 24	" .. ..	58995	Leonce Miville, St. Cleophas.	1 "	35		
" 24	" .. ..	58996	Alexis Martineau, St. Cleophas.	1 "	40	Chase & Sanborn, Montreal.	
" 28	" .. ..	58997	Ulric Desrochers, St. Gabriel.	1 "	30		
" 29	" .. ..	58998	Octavan Rainville, St. Felix.	1 "	40	Chase & Sanborn, Montreal.	
Dec. 1	" .. ..	58999	Dionis Tellier, Berthier.	1 "	45	S. H. Ewing Sons, Montreal.	
" 4	" .. ..	59000	Ernest Asselin, St. Felix.	1 "	40		Chevalier & Pouliot Joliette.
" 1	" .. ..	60913	J. O. Davin, Berthierville.	1 "	40	Chase & Sanborn, Montreal.	
" 2	" .. ..	60914	O. Paquette, Berthierville.	1 "	40	Kearney Bros., Montreal.	
" 2	" .. ..	60915	Arthur Caisse, Berthierville.	1 "	45		Laporte & Martin, Montreal.
" 4	" .. ..	60916	Louis Enos, St. Felix.	1 "	40		
" 4	Postum Cereal	60917	Arthur Tessier, St. Felix.	1 "	40	Canadian Postum Cereal Company, Windsor, Ont.	

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.		
.....	Genuine....	1.0088	None.	2431	Genuine coffee.
.....	"	"	"	2434	"
.....	Roasted oats	1.0166	Pre- sent.	2437	Sold as a coffee sub- stitute.
.....	Genuine....	"	None.	2439	Genuine coffee.
.....	"	"	"	2442	"
.....	"	"	"	2446	"
.....	"	"	"	2448	"
.....	"	"	"	2449	"
.....	"	"	"	2452	"
.....	Chicory and peas.	1.0160	Pre- sent.	2453	Sold as coffee. As such, is adulter- ated.

DR. V. P. LAVALLEE, INSPECTOR.

.....	Chicory and peas.	1.0103	Pre- sent.	58992	Sold as coffee. As such is adulterated
.....	Chicory and peas.	1.0147	"	58993	Sold as coffee. As such is adulterated
.....	Genuine....	"	None.	58994	Genuine Coffee....
.....	Chicory and peas.	1.0114	Pre- sent.	58995	Sold as coffee. As such is adulterated
.....	Genuine ..	1.0090	None	58996	Genuine coffee....
.....	Chicory and grain.	1.0227	Pre- sent.	58997	Sold as coffee. As such is adulterated
.....	Genuine....	"	None.	58998	Genuine coffee .....
.....	"	"	"	58999	" " .....
.....	"	"	"	59000	" " .....
.....	"	"	"	60913	" " .....
.....	"	"	"	60914	" " .....
.....	"	"	"	60915	" " .....
.....	Chicory and grain.	1.0097	Pre- sent.	60916	Sold as coffee. As such is adulterated
.....	"	"	"	60917	Sold as a coffee sub- stitute.

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF THREE RIVERS—

1913.							
Dec. 10	Coffee.....	60918	Magnan Bros., Joliette.	1 lb.	40	Nat. Coffee & Spice Co., Montreal.	
" 9	" ..	60919	Frs. Rivest, "	1 "	40	Chase & Sanborn, Montreal.	
" 9	" ..	60920	J. A. Lavallee, "	1 "	40	Chase & Sanborn, Montreal.	
" 10	" ..	60921	Dame Rosali Berthumeur, Joliette.	1 "	30		
" 10	" ..	60922	Chevalier & Son, Joliette	1 "	40		
" 9	" ..	60923	Camille Barrette, "	1 "	40	Kearney Bros., Montreal.	

## DISTRICT OF EASTERN TOWNSHIPS—

Dec. 4	Café mélangé.	2251	O. Lambert, St. Maurice de Thetford.	1 can.	40	The F. F. Dalley, Co., Ltd., Hamilton.	
" 5	" préparé.	2252	May & Houlahan, Sherbrooke.	3 tins.	1.35	G. Washington Ref. Co., New York.	
" 9	Café.....	2253	E. Marcoux, Sherbrooke	1 lb.	40		Nat. Coffee & Spice Co., Montreal.
" 10	" réception	2254	J. A. Limeau, Victoria-ville.	1 tin.	35	The Oriental Mfg. Co., Toronto.	J. B. Reneaud, Quebec.
" 10	" mélange.	2255	H. H. Morin & fils, Windsor Mills.	1 "	35	Herron Leblanc, Ltd., Montreal.	
" 11	Instant Postum.	2256	Geo. Bolduc, Lennoxville.	3 tins.	90	Postum Cereal Co., Ltd., Battle Creek, Mich.	Clough & Co., Lennoxville.
" 12	Café Mocha...	2257	D. Hébert, Drummondville.	1 lb.	40		
" 15	Postum.....	2258	J. O. Montplaisir, Drummondville.	3 pkgs	25	Can. Postum Cereal Co., Ltd., Windsor, Ont.	
" 15	Café.....	2259	G. H. Robb, Knowlton.	1 lb.	40	Chase & Sanborn, Montreal.	
" 16	" Mocha.	2260	E. H. Bisaillon, Lawrenceville.	1 "	40		Lacaille Gendrea & Cie., Montreal.
" 16	" Gilt Edge	2261	L. Ménard, Eastman...	1 "	40	Thos. Wood, Boston & Montreal.	
" 17	Café.....	2262	Tenny & Loisel, Waterloo, P.Q.	1 "	40	Baker Importing Co., New York.	
" 17	" ..	2263	Mercure & Frères, Granby.	1 "	35	C. H. Cochrane, Ottawa, Ont.	
1914.							
Jan. 13	" ..	2264	Aug. Perron, St. Joseph, Be.	1 "	40	Chase & Sanborn, Montreal.	Whitehead & Turner, Quebec.
" 14	" ..	2265	C. Barbari, St. George, Be.	1 "	38		



## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

		Results of Analysis.					
Inspector's Report. (Is not an expression of opinion.)	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
<i>Concluded.</i>							
.....	Genuine.....		None.	Whole Coffee Beans.....	60918	Genuine coffee.....	
.....	" .....		" .....	.....	60919	" " .....	
.....	" .....		" .....	.....	60920	" " .....	
.....	Chicory and 1-0182 Pres- peas. ent.			About 50% Chicory and Roasted Peas.	60921	Sold as coffee. As such is adulterated	
.....	Chicory .... 1-0127 None.			20 to 25% Chicory . . .	60922	Sold as coffee. As such is adulterated	
.....	Genuine.....		"	Whole Coffee Beans.....	60923	Genuine coffee.....	

## J. C. ROULEAU, INSPECTOR.

.....	Chicory and grain.	1-0184	Pres-ent.	About 40% coffee and 60% chicory and grain.	2251	Sold as coffee substitute.
.....	.....		None.	Extra in powder form.	2252	Extract of coffee.
.....	Roasted grain.	1-0094	Pres-ent.	Trace roasted grain.....	2253	Sold as coffee. Contains a small amount of roasted grain, perhaps accidentally. Doubtful.
Marque composé par Oriental.	Chicory and grain.	1-0147	"	30 to 35% chicory and grain.	2254	Sold as coffee substitute.
.....	Roasted peas.	1-0109	"	About 50% coffee and 50% roasted grain.	2255	"
.....	.....		"	Instant Postum.....	2256	"
.....	Chicory and peas.	1-0111	"	10 to 15% chicory and roasted peas.	2257	Sold as coffee. As such is adulterated.
.....	.....		"	Roasted wheat and molasses.	2258	Sold as a coffee substitute.
.....	Genuine.....		None.	.....	2259	Genuine coffee.
.....	" .....		"	.....	2260	" "
.....	" .....		"	.....	2261	" "
.....	" .....		"	.....	2262	" "
Invoice marked Ground special with chicory.	Chicory ....	1-0128	"	20 to 25% chicory. ....	2263	Sold as coffee substitute.
.....	Genuine ..		"	.....	2264	Genuine coffee.
.....	Chicory and peas.	1-0150	Pres-ent.	30 to 35% chicory and roasted peas.	2265	Sold as coffee. As such is adulterated.

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher
DISTRICT OF EASTERN TOWNSHIPS—							
1914.							
Jan. 15	Café mélange.	2266	Mde. N. Lessard, St. Victor de Tring.	1 lb.	20	.....	Stock de S. Biledeau, St. Romuald.
" 16	" .....	2267	P. Gagné, Tring Junction.	1 "	30	Chase & Sanborn, Montreal.	Whitehead & Turner, Quebec.
" 20	" mélange.	2268	Jos. Ledoux, St. Hyacinthe.	1 "	25	Herron Leblanc, Montreal.	.....
" 22	" .....	2269	J. A. Duelles, St. Hyacinthe.	1 "	35	.....	Augustin Comté et Cie, Montreal.
" 22	" .....	2270	J. R. Dufresne, St. Hyacinthe.	1 "	35	.....	.....

## DISTRICT OF MONTREAL—

Jan. 5	Coffee.....	58781	James Etto, 190 St. Antoine St., Montreal.	1 lb.	35	.....	.....
" 5	" .....	58782	Hutton Bros., 206 St. Antoine St., Montreal.	1 "	30	.....	.....
" 12	" .....	58783	J. A. Gauthier, 3 St. Antoine St., Montreal.	1 "	40	.....	Chase & Sanborn..
" 12	" .....	58784	E. W. Farrell, 79 St. Antoine St., Montreal.	1 "	40	.....	" "
" 13	" .....	58785	Longway & Lewis, 320 St. Antoine St., Montreal.	1 "	40	.....	S. H. Ewing & Sons
" 13	" .....	58786	T. Coggins, 319 St. Antoine St., Montreal.	1 "	40	.....	Chase & Sanborn..
" 15	" .....	58787	A. Desrocher 7 Mountain St., Montreal.	1 "	40	.....	.....
" 16	" .....	58788	E. Rochon, 697 Notre Dame St., West, Montreal.	1 "	40	.....	.....
" 20	" .....	58789	Archambault Frère, 747 Notre Dame St. West, Montreal.	1 "	40	.....	.....
" 20	" .....	58790	U. Bosquet, 892 Notre Dame St., West, Montreal.	1 "	35	.....	Minto Bros., Toronto.
" 20	" .....	53791	Geo. Rolland, 973 Notre Dame St., West, Montreal.	1 "	40	.....	.....
" 20	" .....	58792	J. A. Dore, 1286 Notre Dame St., West, Montreal.	1 "	40	.....	Chase & Sanborn..
" 20	" .....	58793	L. P. Lavoie, 1387 Notre Dame St., West, Montreal.	1 "	40	.....	Herron & Leblanc.
" 21	" .....	58794	Robitaille & Gauthier, 2 Craig St., West, Montreal.	1 "	40	.....	.....
" 23	" .....	58795	J. Clement, 70 Vinet St., Montreal.	1 "	40	.....	.....
" 23	" .....	58796	V. Vian, 59 Vinet St., Montreal.	1 "	35	.....	.....
" 23	" .....	58797	E. Legault, 71 Rose de Lima St., Montreal.	1 "	40	.....	The Nat. Coffee & Spice Co.

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.		
Found.					

## Concluded.

.....	Chicory. ....	1.0124	Pre- sent.	20 to 25% chicory and roasted peas	2266 Sold as a coffee sub- stitute.
.....	Genuine.....		None.		2267 Genuine coffee.
.....	Chicory and peas. ....	1.0125	Pre- sent.	20 to 25% chicory and roasted peas.	2268 Sold as a coffee sub- stitute.
.....	" .....	1.0109	"	10 to 15% chicory and roasted peas.	2269 Sold as coffee. As such is adulterated.
.....	" .....	1.0109	"	10 to 15% chicory and roasted peas.	2270 Sold as coffee. As such is adulterated.

## D. J. KEARNEY, INSPECTOR.

.....	Chicory and grain. ....	1.0112	Pre- sent.	10 to 15% chicory and roasted grain	58781 Sold as coffee. As such is adulterated
.....	Chicory .....	1.0108	None.	10 to 15% chicory	58782 " "
.....	Genuine.....		"		58783 Genuine coffee.
.....	" .....		"		58784 " "
.....	" .....		"		58785 " "
.....	" .....		"		58786 " "
.....	Chicory .....	1.0124	"	20 to 25% chicory	58787 Sold as coffee. As such is adulterated
.....	" .....	1.0132	"	25 to 30% chicory	58788 " "
.....	Chicory and peas. ....	1.0103	Pre- sent.	25 to 30% chicory and roasted grain.	58789 "
.....	Genuine.....		None.		58790 Genuine coffee.
.....	Chicory and peas. ....	1.0152	Pre- sent.	40 to 45% chicory and roasted peas.	58791 Sold as coffee. As such is adulterated
.....	Genuine .....		None		58792 Genuine Coffee.
.....	" .....		"		58793 " "
.....	Chicory .....	1.0112	"	10 to 15% chicory	58794 Sold as coffee. As such is adulterated
.....	" .....	1.0146	"	35% chicory	58795 " "
.....	Chicory and peas. ....	1.0100	Pre- sent.	15 to 20% chicory and roasted peas.	58796 " "
.....	Genuine.....		None.		58797 Genuine Coffee.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MONTREAL—

1914.							
Jan. 23	Coffee .....	58798	H. Cardinal, 68 Bourget St. Montreal.	1 lb.	30	.....	.....
" 23	" .....	58799	E. Marleau, 57 Turgeon St., Montreal.	1 "	40	.....	.....
" 23	" .....	58800	H. Shubert, 58 Turgeon St., Montreal.	1 "	40	.....	.....

## DISTRICT OF ARGENTEUIL, TWO MOUNTAINS AND TERREBONNE—

1913.							
Dec. 12	Coffee .....	2351	Leandre Paquin, St. Jerome, P.Q.	1 tin.	35	.....	.....
" 19	" .....	2362	Mde. F. D. Hall, St. Agathe des Monts.	1 "	40	.....	Mathewson & Son.

## DISTRICT OF VALLEYFIELD—

Dec. 15	Coffee.....	58560	J. Boyle, Alexandria Ont.	1 lb..	40	.....	.....
" 15	" .....	58561	P. Huot & Son, Alexandria, Ont.	1 "	40	.....	.....
" 15	" .....	58562	Auguste Lalonde, Alexandria, Ont.	1 "	40	.....	.....
" 29	" .....	58563	J. W. Thompson, Vankleek Hill.	1 "	40	Chase & Sanborn..	.....
" 29	" .....	58564	P. T. McLaurin, Vankleek Hill.	1 "	40	.....	.....
" 29	" .....	58565	Geo. Chalmers, Vankleek Hill.	1 "	40	Pure Gold Mfg. Co., Ltd.	.....
" 29	" .....	58566	" " "	1 tin.	40	White Swan Spices & Cereals Co.	.....
" 29	" .....	58567	J. C. Brown, Vankleek Hill.	1 lb..	40	.....	.....
" 29	" .....	58568	D. Seward, Hawkesbury, Ont.	1 "	40	.....	.....
1914.							
Jan. 26	" .....	58569	L. T. Delage, Coteau Junction, P. Q.	1 "	40	.....	.....
" 26	" .....	58570	B. Duckett, Coteau Junction, P.Q.	1 "	35	.....	.....
" 26	" .....	58571	R. Ranger, Coteau Junction, P.Q.	1 "	40	.....	.....
" 26	" .....	58572	J. B. Leger, Valleyfield, P.Q.	1 "	40	.....	Laporte Martin & Cie, Ltd.
" 26	" .....	58573	H. Poirier, Valleyfield, P.Q.	1 "	40	F. F. Dalley Co., Ltd.	.....
" 26	" .....	58574	J. A. Major Valleyfield, P.Q.	1 tin.	50	.....	.....

SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No.	Remarks and Opinion of the Chief Analysis.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		
<i>Concluded.</i>						
.....	Chicory and grain.	1.0134	Pre-sent.	25 to 30% chicory and roasted grain.	58798	Sold as coffee. As such is adulterated
.....	Chicory	1.0118	Trace.	15 to 20% chicory.	58799	" "
.....	Chicory and peas.	1.0128	Pre-sent.	25 to 30% chicory and roasted peas.	58800	" "

M. CADIEUX, TEMPORARY INSPECTOR.

.....	Chicory and peas.	1.0117	Pre-sent.	15 to 20% chicory and roasted peas.	2361	Sold as coffee. As such is adulterated.
.....	Genuine		None.		2362	Genuine coffee.

J. J. COSTIGAN, ACTING INSPECTOR.

.....	Genuine		None.		58560	Genuine coffee.
.....	"		"		58561	"
Sold as compound.	Chicory and grain.	1.0109	Pre-sent.	About 75% coffee and 25% chicory and grain.	58562	Sold as a coffee substitute.
.....	Genuine		None		58563	Genuine coffee.
.....	Chicory.	1.0081	Trace.	Chicory.	58564	Contains a trace of chicory, probably accidental. Doubtful.
.....	Genuine		None		58565	Genuine coffee.
.....	"		"		58566	"
.....	Chicory and grain.	1.0124	Pre-sent.	20 to 25% chicory and roasted grain.	58567	Sold as coffee. As such is adulterated.
.....	Chicory.	1.0099	None.	Trace.	58568	Trace chicory; probably accidental. Doubtful.
Victoria Brand	Genuine		None.		58569	Genuine coffee.
.....	Chicory and peas.	1.0119	Pre-sent.	15 to 20% chicory and roasted peas.	58570	Sold as coffee. As such is adulterated.
.....	"	1.0152	"	35 to 40% chicory and roasted peas.	58571	" "
.....	Genuine		None.		58572	Genuine coffee.
.....	"		"		58573	"
Condor Brand	Chicory and peas.	1.0159	Pre-sent.	40 to 45% chicory and roasted peas.	58574	Sold as coffee. As such is adulterated.

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VALLEYFIELD—

1914.							
Jan.	26	Coffee .....	58575 The Industrial Co-Op- erative Society, Ltd., Valleyfield, P.Q.	1 lb.	40	.....	.....
"	26	" .....	58576 E. Lefebvre, Valleyfield, P.Q.	1 "	40	.....	.....
"	26	" .....	58577 E. Charlebois, Chemin Laroque.	1 "	35	.....	.....
"	26	" .....	58578 E. Bougie, Chemin La- roque.	1 tin.	40	.....	.....
"	26	" .....	58579 Richer & Page, Chemin Laroque.	1 "	40	E. D. Marceau, Montreal.	.....

## DISTRICT OF OTTAWA—

1913.							
Dec.	10	Coffee .....	59271 G. F. Hodgins Co., Shawville, P.Q.	1 lb.	40	Vendors. ....	.....
"	10	" .....	59272 W. A. Hodgins, Shaw- ville, P.Q.	1 "	40	Vendor .....	.....
"	11	" .....	59273 Geo. Patterson, Wake- field, P.Q.	1 "	40	.....	.....
"	11	" .....	59274 Alex. MacLaren, Wake- field, P.Q.	1 "	40	.....	.....
"	16	" .....	59275 Emond Co., Eastview, Ont.	1 "	40	.....	.....
"	16	" .....	59276 D. Deguire, Eastview, Ont.	1 "	40	.....	.....
"	16	" .....	59277 Jos. Durocher, East- view, Ont.	1 "	40	T. Lipton Co., Toronto.	.....
"	17	" .....	59278 T. W. Collins, Friel St., Ottawa.	1 "	40	Vendor .....	.....
"	17	" .....	59279 O. Routhier, King St., Ottawa.	1 "	40	Provost & Allard, Ottawa.	.....
"	17	" .....	59280 M. T. Pinkerton, Rideau St., Ottawa.	1 "	40	Vendor .....	.....
"	17	Instant Postum.	59281 " "	3 tins	90	Postum Cereal Co. Ltd., Battle Creek, Mich.	Provost & Allard, Ottawa.
"	18	Camp Coffee..	59282 O. Lemieux, Rue Pont, Hull, P.Q.	3 bots	54	R. Paterson & Sons, Ltd., Glas- gow, Scotland.	S. J. Major, Ottawa.
"	18	Coffee .....	59283 Soublie & Tremblay, Rue Pont, Hull, P.Q.	1 lb.	40	.....	" .....
"	18	Postum Cereal	59284 Jos. Martel, Rue Duc, Hull, P.Q.	3 pkts	45	Canada Postum Cereal Co. Ltd., Windsor, Ont.	Unknown .....
"	18	Condensed Coffee.	59285 M. J. Laverdure, Rue Albert, Hull.	3 tins	75	Truro Condensed Milk Co., Truro, N.S.	H. N. Bate & Sons, Ottawa.
"	18	Coffee .....	59286 Wm. Sarrazin, 105 Ave Champlain, Hull.	1 lb.	40	Vendor .....	.....
"	20	" .....	59287 T. Bowman, Somerset St., Ottawa.	3 tins	60	Minto Bros., Toronto.	.....

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examina- tion.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		
<i>Concluded.</i>						
	Genuine.....		None.		58575	Genuine coffee.
	" .....		" .....		58576	" .....
	Chicory and peas.	1·0140	Pre- sent.	30 to 35% chicory and roast peas.	58577	Sold as coffee. As such is adulterated.
	Chicory and grain.	1·0135	" .....	25 to 30% chicory and roast grain.	58578	" .....
Café de Madame Huot. Chicory acknowledged.	Chicory .....	1·0103	None	5 to 10% chicory.....	58579	Sold as a coffee sub- stitute.

## J. A. RICKEY, INSPECTOR.

	Genuine .....		None.		59271	Genuine coffee.
	"		"		59272	"
"Anglo Saxon".....	Chicory ....	1·0112	"	10 to 15% chicory.....	59273	Sold as coffee. As such is adulterated
"	"	1·0113	"	" "	59274	" "
	"	1·0097	"	Trace chicory .....	59275	Trace chicory, prob- ably accidental.
	"	1·0109	"	10 to 15% chicory.....	59276	Sold as coffee. As such is adulterated
	Genuine .....		"		59277	Genuine coffee.
	"		"		59278	"
	"		"		59279	"
	"		"		59280	"
			Pre- sent.	Instant Postum .....	59281	Sold as a coffee sub- stitute.
			None.	Coffee extract .....	59282	Extract of coffee.
	Chicory ....	1·0098	"	5 to 10% chicory.....	59283	Sold as coffee. As such is adulterated
			Pre- sent.	Roasted wheat and mo- lasses. "Postum."	59284	Sold as a coffee sub- stitute.
			None.	Condensed milk, coffee and cane sugar.	59285	Condensed coffee, milk, etc.
	Genuine.....		"		59286	Genuine coffee.
"Melagama." Pure and wholesome.	"		"		59287	"

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF OTTAWA—

1913.							
Dec. 20	Coffee.....	59288	A. Bourgingnon, Booth St., Ottawa.	1 lb.	40	Chase & Sanborn, Montreal.	.....
" 20	" .....	59289	W. J. Lanthier, 177 Rochester St., Ottawa	1 "	40	Vendor. ....	.....
" 20	" .....	59290	E. Carriere, Rochester St., Ottawa.	1 "	40	Gorman, Eckert & Co., London, Ont.	.....

## DISTRICT OF KINGSTON—

Dec. 10	Coffee Substitute.	61047	F. Rosevear, Port Hope	3 tins.	75	Instant Postum, Battle Creek, Mich.	.....
" 9	"	61060	G. W. Boyes, Napanee.	3 "	45	Canadian Cereal Co., Windsor Ont.	.....
" 10	"	61061	R. Elvins, Belleville...	3 "	90	Instant Postum, Battle Creek, Mich.	.....
" 10	"	61062	W. Burney, Cobourg.	3 "	75	Canadian Cereal Co., Windsor, Ont.	.....
" 10	"	61063	E. Guillet, Cobourg....	3 "	90	Instant Postum, Battle Creek, Mich.	.....
" 10	"	61064	Hooey & Son, Cobourg.	3 "	45	Canadian Cereal Co., Windsor, Ont.	.....
" 10	"	61065	T. R. Harvey & Son, Cobourg.	3 "	90	Instant Postum, Battle Creek, Mich.	.....
" 10	"	61066	Estate H. Crozier, Co. bourg.	3 "	45	Canadian Cereal Co., Windsor, Ont.	.....
" 10	"	61067	W. D. Stephens, Co. bourg.	3 "	150	Instant Postum, Battle Creek, Mich.	.....
" 11	"	61068	T. A. Fisher, Lindsay...	3 "	90	" "	.....
" 11	"	61069	W. H. Ayers, Lindsay.	3 pkgs	45	Canadian Cereal Co., Windsor, Ont.	.....
" 11	"	61070	Adame Bros., Lindsay..	3 tins.	90	Instant Postum, Battle Creek, Mich.	.....
" 11	"	61071	J. Brown, Lindsay.....	3 "	90	" "	.....
" 11	"	61072	A. Pearson, Peterboro..	3 "	90	" "	.....
" 11	"	61073	J. Sutherland, Peterboro.	3 bots.	60	Paterson & Son, Glasgow.	.....
" 11	"	61074	P. S. White, Peterboro.	3 "	60	" "	.....
" 11	"	61075	A. L. Campbell, Lindsay.	3 pkgs	45	Canadian Postum, Windsor, Ont.	.....



## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% extract. Iodine Re- action for Starch.	Found.		

Concluded.

"Seal" Brand . . . . .	Genuine . . . . .	None . . . . .	59288	Genuine coffee.
.....	" . . . . .	" . . . . .	59289	"
"Rideau Hall".....	" . . . . .	" . . . . .	59290	"

JAS. HOGAN, INSPECTOR.

.....	.....	Pre- sent.	Instant Postum.....	61047	Sold as a coffee sub- stitute.
.....	.....	"	Roasted wheat and mo- lasses "Postum."	61060	"
.....	.....	"	Instant Postum.....	61061	"
.....	.....	"	Roasted wheat and mo- lasses "Postum."	61062	"
.....	.....	"	Instant Postum.....	61063	"
.....	.....	"	Roasted wheat and mo- lasses "Postum."	61064	"
.....	.....	"	Instant Postum.....	61065	"
.....	.....	"	Roasted wheat and mo- lasses "Postum."	61066	"
.....	.....	"	Instant Postum.....	61067	"
.....	.....	"	" . . . . .	61068	"
.....	.....	"	Roasted wheat and mo- lasses "Postum."	61069	"
.....	.....	"	Instant Postum..	61070	"
.....	.....	"	" . . . . .	61071	"
.....	.....	"	" . . . . .	61072	"
.....	.....	None.	Coffee extract.....	61073	Extract of coffee.
.....	.....	"	" . . . . .	61074	"
.....	.....	Pre- sent.	Roasted wheat and mo- lasses "Postum."	61075	Sold as a coffee sub- stitute.

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Samples.	Name and Address of Vendors.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON							
1913.							
Dec. 11	Coffee.. . . .	61076	The Gordon-Davies, Peterboro.	1½	60	Wm. Davies, Toronto.	.....
" 11	Coffee Substitute.	61077	W. H. Hamilton, Peterboro.	3 tins.	90	Instant Postum, Battle Creek, Mich.	.....
" 11	"	61078	J. M. Fanning, Peterboro.	3 bots.	60	Paterson & Son, Glasgow.	.....
DISTRICT OF TORONTO							
Dec. 19	Coffee Substitute.	57592	W. Thompson, 223 Parliament st. Toronto.	3 bots.	45	.....	Unknown .....
" 19	"	57593	W. Brach, 235 Annette st. west, Toronto.	3 cans	75	Truro Condensed Milk Co., Truro, N.S.	" .....
" 19	"	57594	Rowntree & Co., 1705 Dundas st. west, Toronto.	3 pkgs.	75	Postum Cereal Co., Battle Creek, Mich.	" .....
" 22	"	57595	R. H. Banks, 1186 Dufferin st., Toronto.	3 bots.	45	Jno. Bromley & Son, Bloomsbury Leeds.	H. P. Echardt & Co., Toronto.
" 22	"	57596	Lewis Stevenson, 942 Bloor st. west, Toronto	¾ lb.	15	Canadian Postum Cereal Co., Ltd., Windsor, Ont.	Medland Bros., Toronto.
" 30	"	57597	Stennett Bros., 1925 Queen st. east, Toronto.	3 bots.	45	Chas. Fry & Co., Ltd., London.	The Harry Hague Co., Toronto.
" 31	Ground Coffee.	57598	Gibb Bros., 1260 Yonge st., Toronto.	1 lb.	40	Todhunter, Mitchell & Co., Toronto.	.....
" 31	"	57599	H. Sibley, 1515 Yonge st., Toronto.	1 "	45	Pure Gold Mfg. Co., Ltd., Toronto.	.....
1914.							
Jan. 1	"	57600	A. C. Mason, Oshawa.	1 "	40	.....	.....
1913.							
Dec. 19	"	59880	E. Hanks, 197 Wilton ave., Toronto.	1 "	45	Pure Gold Mfg. Co., Ltd., Tor'o.	.....
" 19	"	59881	G. Austin, 2165 Dundas st. west., Toronto.	1 "	30	.....	.....
" 19	"	59882	F. Forrest, 515 Annette st., Toronto.	1 "	40	.....	Eby Blais Ltd, Toronto.
" 22	"	59883	A. V. Wagner, 153 Wallace ave., Toronto.	1 "	40	.....	R. B. Hayhoe, Toronto.
" 26	"	59884	J. Ward, 123 Danforth ave., Toronto.	1 "	40	R. B. Hayhoe & Co., Toronto.	Todhunter, Mitchell & Co., Ltd., Toronto.
" 26	"	59885	F. J. Virgin, 255 Danforth ave., Toronto.	1 "	40	.....	.....
" 26	"	59886	C. C. Robinson, 2371 Yonge st. north, Toronto.	1 "	40	.....	.....

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		

*Concluded.*

.....	Genuine.....	.....	None.....	.....	61076	Genuine coffee.
.....	.....	.....	Pre- sent.	Instant Postum.....	61077	Sold as a coffee sub- stitute.
.....	.....	.....	None.....	Coffee extract.....	61078	Extract of coffee.

H. J. DAGER, INSPECTOR.

Symington's Essence of Coffee and Chicory.....	.....	.....	None.....	Coffee extract.....	57592	Extract of coffee.
"Reindeer" Brand Milk Coffee and Sugar.....	.....	.....	".....	Condensed milk, coffee and cane sugar.....	57593	Condensed coffee, milk, &c.
Instant Postum.....	.....	.....	Pre- sent.	Instant Postum.....	57594	Sold as a coffee sub- stitute.
Bromley's Tourist Coffee and Chicory essence.....	.....	.....	None.....	Coffee extract.....	57595	Extract of coffee.
Postum Cereal.....	.....	.....	Pre- sent.	Roasted wheat and mo- lasses "Postum.".....	57596	Sold as a coffee sub- stitute.
Distil Extract of Coffee with Chicory.....	.....	.....	None.....	Coffee extract.....	57597	Extract of coffee.
"Our Own" Brand.....	Genuine.....	.....	".....	.....	57598	Genuine coffee.
Pure Gold "B" Coffee.....	".....	.....	".....	.....	57599	"
.....	Chicory.....	1.0108	".....	10 to 15% Chicory.....	57600	Sold as ground Coffee. As such is adulterated.
Pure Gold No. 1 Mocha and Java Coffee.....	Genuine.....	.....	".....	.....	59880	Genuine coffee.
Eby Blain's famous Em- press Coffee.....	".....	.....	".....	.....	59881	"
Mountain Blend. High Grade Pure Coffee.....	".....	.....	".....	.....	59882	"
.....	".....	.....	".....	.....	59883	"
Mountain Blend. High Grade Pure Coffee.....	".....	.....	".....	.....	59884	"
" ".....	".....	.....	".....	.....	59885	"
.....	Chicory.....	1.0097	".....	Trace of chicory.....	59886	Trace Chicory. Pos- sibly accidental. Doubtful.

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF TORONTO—

1913.							
Dec. 26	Ground Coffee	59887	G. E. Coon, 2124 Yonge st. north, Toronto.	1 lb..	40	.....	.....
" 30	"	59888	F. E. Farley, 2466 Queen st. east, Toronto.	1 "	40	.....	.....
" 30	"	59889	Alex. Bell, 1906 Queen st. east, Toronto.	1 "	40	.....	.....
" 31	"	59890	Thos. Brown, 21 Arthur st., Toronto.	1 "	40	The J. M. Lowes Co., Ltd., Toronto	.....

## DISTRICT OF HAMILTON—

Dec. 2	Ground Coffee.	59821	C. H. Little, Owen Sound.	1 lb..	40	Chase & Sanborn..	McLauchlan & Sons Co., Ltd., Owen Sound.
" 3	"	59822	Irvine Gower, Owen Sound.	1 "	40	I. X. L. Spice and Coffee Mills Ltd., London.	.....
" 4	"	59823	Nat. Railway Association, Palmerston.	1 "	40	.....	.....
" 5	"	59824	A. Reid, Guelph. ....	1 "	40	Chase & Sanborn..	The Simpson Co., Guelph.
" 5	"	59825	W. H. Morris, Guelph.	1 "	40	.....	.....
" 9	"	59826	H. Rehder & Co., Paris.	1 "	45	White Swan, S. & C., Ltd., Toronto.	.....
" 10	"	59827	J. Pilling, 24 Duke St., Brantford.	1 "	40	Chase & Sanborn, Montreal.	.....
" 10	"	59828	Thos. Hoe, 79 Oxford St., Brantford.	1 "	40	.....	Unknown .....
" 10	"	59829	H. Shaw, 79 Brock St., Brantford.	1 "	40	.....	Brantford Coffee and Spice Co., Brantford.
" 11	"	59830	H. Gear, 129 Bay St., Hamilton.	1 "	40	.....	Geo. E. Bristol & Co., Hamilton.
" 2	Coffee Substitute.	59831	J. G. Spragge, Owen Sound.	3 pkgs	90	Postum Cereal Co., Ltd., Battle Creek, Mich.	Unknown .....
" 2	"	59832	McLauchlan & Sons Co., Ltd., Owen Sound.	1 lb.	20	Canadian Postum Cereal Co., Ltd., Windsor, Ont.	.....
" 4	"	59833	F. Melvin, Palmerston.	3 pkgs	15	Philip Bockert, Buffalo.	.....
" 5	"	59834	Geo. Williams, Guelph.	3 "	75	R. Paterson & Sons, Ltd., Glasgow.	.....
" 5	"	59835	Benson Bros., Guelph.	3 cans.	90	Truro Condensed Milk Co., Truro, N.S.	Unknown .....

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		

*Concluded.*

Chicory acknowledged, after purchase.	Chicory.....	1.0112	None.	5 to 10 p.c. chicory....	59887	Sold as coffee; as such is adulter- ated.
.....	" ..	1.0105	"	" " .....	59888	Sold as coffee, and as such is adulter- ated.
.....	" .....	1.0100	"	10 to 15 p.c. " .....	59889	" "
Golden Eagle Blend. Best ground coffee.	Genuine.....	"	"	.....	59890	Genuine coffee.

## H. J. DAGER, ACTING INSPECTOR.

Imperial Brand. High Grade Coffee.	Genuine	.....	None.	.....	59821	Genuine coffee.
Sweetheart. High grade Coffee.	"	.....	"	.....	59822	"
.....	Chicory	1.0103	"	5 to 10% chicory.....	59823	Sold as coffee; such, is adulterated.
Chase & Sanborn. Special Java and Mocha. High Grade Coffee.	Genuine	.....	"	.....	59824	Genuine coffee.
.....	Chicory	1.0117	"	15 to 20% chicory.....	59825	Sold as coffee; as such, is adulterated.
White Swan Coffee. A perfect blend of finest Mocha and Java.	Genuine	.....	"	.....	59826	Genuine coffee.
"Seal" Brand. Guaranteed to be a combination of fine Coffees.	"	.....	"	.....	59827	"
.....	"	.....	"	.....	59828	"
.....	"	.....	"	.....	59829	"
No. 1 Imperial Blend....	"	.....	"	.....	59830	"
Instant Postum.....	.....	.....	Present.	Instant postum.....	59831	Sold as a coffee substitute.
Postum Cereal.....	.....	.....	"	Roasted wheat and molasses postum.	59832	" "
Essence for Coffee.....	.....	.....	None.	Caramel .....	59833	" "
Ready aye Ready with Chicory.	.....	.....	"	Coffee extract .....	59834	Extract of coffee.
"Reindeer" Brand. Milk, Sugar and Coffee.	.....	.....	"	Condensed milk, coffee and cane sugar.	59835	Condensed coffee milk, &c.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
Dec. 11	Coffee Mixture	59836	J. J. Lynch, 185 Park St. north, Hamilton.	3 bots.	60	.....	Unknown .....
" 12	"	59837	Lumsden Bros., 82 McNab St. north, Hamilton.	3 pkgs	9	.....	Heinr Franch Sons, Inc., Flushing, N.Y.
" 12	"	59838	James Turner Co., Ltd., 21 Main St. east, Hamilton.	3 " ..	30	Nat. Essence of Coffee Co., Philadelphia.	.....
" 12	Ground Coffee.	59839	W. Durance, 58 Sherman St., Hamilton.	3 " ..	40	.....	.....
" 12	"	59840	E. L. Aiken, 62 Barton St. east, Hamilton.	3 " ..	40	.....	McLaren's, Ltd., Hamilton.

## DISTRICT OF WINDSOR—

Dec. 16	Coffee ..	53609	Geo. Miller, London, Ont.	1 lb.	40	I. X. L. Spice & Coffee Co., London.	.....
" 4	"	54441	Wm. Bruce & Son, London, Ont.	1 " 40	" " "	.....	.....
" 5	"	54442	J. J. Alexander, London, Ont.	1 " 40	" " "	.....	.....
" 5	"	54444	John Fairbairn, London, Ont.	1 " 40	Gorman Eckert Co. London.	.....	.....
" 5	"	54446	R. Baker, London, Ont.	1 " 45	Chase & Sanborn, Montreal.	.....	.....
" 5	"	54447	I. X. L. Spice Co., London, Ont.	1 " nil	Vendors.	.....	.....
" 5	"	54448	Wm. Hayes, London, Ont.	1 " 40	Vendor	.....	.....
" 5	"	54450	W. Richards, London, Ont.	1 " 49	Gorman Eckert Co. London.	.....	.....
" 5	"	54451	Consumers Operative Society, London, Ont.	1 " 40	Turner, Hamilton.	.....	.....
" 5	"	54452	E. B. Hargreaves, London, Ont.	1 " 45	Dalton Bros., Toronto.	.....	.....
" 5	"	54453	S. English, London, Ont	1 " 35	Gorman Eckert Co. London.	.....	.....
" 9	"	54454	R. Butcher, St. Mary's.	1 " 40	" " "	.....	.....
" 9	"	54459	F. W. Hutton, St. Mary's.	1 " 45	Chase & Sanborn, Montreal.	.....	.....
" 10	"	54465	Oman & Mallion, Stratford.	1 " 50	Dalton Bros., Toronto.	.....	.....
" 10	"	54469	Searth Grocery Co., Stratford.	1 " 40	McLaren's Ltd., Hamilton.	.....	.....
" 10	"	54472	T. O. Donnell, Stratford.	1 " 40	Chase & Sanborn, Montreal.	.....	.....
" 10	"	54474	Walsh Bros., "	1 " 40	.....	.....	.....
" 12	"	54496	Geo. McLennan & Co., Clinton.	1 " 40	Gorman Eckert Co. London.	.....	.....

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		
<i>Concluded.</i>						
Ready Service Kit Coffee. Highly concentrated Essence made from finest quality Coffee and Chicory.	.....	.....	None.	Coffee extract.....	59836	Extract of coffee.
"Franch" Brand Chicory Chicory.	Chicory .....	.....	"	Chicory .....	59837	Sold as a coffee sub- stitute.
Ker-Eal for Coffee .....	.....	.....	Pre- sent.	Caramel and cereal.....	59838	" "
.....	Chicory ...	1.0088	None	Trace chicory .....	59839	A trace of chicory, probably acciden- tal. Doubtful.
McLaren's Invincible Coffee, The Ladies' Delight.	Genuine.....	.....	"	.....	59840	Genuine coffee.

## JOHN TALBOT, INSPECT R.

Sweetheart High Grade Coffee.	Genuine.....	.....	None.	.....	53609	Genuine coffee.
" "	" .....	.....	"	.....	54441	" "
Sweetheart Brand. . . .	" .....	.....	"	.....	54442	" "
Rex " .....	" .....	.....	"	.....	54444	" "
Seal " .....	" .....	.....	"	.....	54446	" "
Sweetheart " .....	" .....	.....	"	.....	54447	" "
.....	" .....	.....	"	.....	54448	" "
.....	" .....	.....	"	.....	54450	" "
.....	" .....	.....	"	.....	54451	" "
Dalton's French Drip Coffee.	" .....	.....	"	.....	54452	" "
Capital Brand.....	" .....	.....	"	.....	54453	" "
" " .....	" .....	.....	"	.....	54454	" "
Seal Brand.....	" .....	.....	"	.....	54459	" "
Dalton's French Drip Coffee.	" .....	.....	"	.....	54465	" "
McLaren's Ladies' De- light.	" .....	.....	"	.....	54469	" "
Seal Brand.....	" .....	.....	"	.....	54472	" "
.....	" .....	1.0106	"	.....	54474	" "
Rideau Brand.....	" .....	.....	"	.....	54496	" "

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—							
1913.							
Dec. 9	Coffee.....	53260	Campbell Bros., & Wilson, Winnipeg.	1 lb.	Nil.		
" 9	" .....	53261	Blue Ribbon, Ltd., Winnipeg.	1 "	30		
" 9	" .....	53262	The White Star Mfg. Co., Winnipeg.	1 "	34		
" 9	" .....	53263	The Gold Standard Mfg. Co., Winnipeg.	1 "			
" 10	" .....	53264	The Dyson Co., Winnipeg.	1 "			
" 10	" .....	53265	The Jobin Marrin Co., Ltd., Winnipeg.	1 "	36	Dwinell, Wright Co., Boston and Chicago.	
" 11	" .....	53266	The Todhunter, Mitchell Co., Winnipeg.	1 "	Nil.	Vendors	
" 11	" .....	53267	H. A. Bell, 817 Sherbrooke St., Winnipeg.	1 "	30		
" 11	" .....	53268	Dodds & Son, Notre Dame Ave., Winnipeg	1 "	45		The Todhunter, Mitchell Co., Winnipeg.
" 12	" .....	53269	H. Thompson, 577 Sargent Ave., Winnipeg.	1 "	45	Dwinell, Wright Co., Boston and Chicago.	
" 12	" .....	53270	" "	1 "	45	Baker Imptg. Co., N.Y. and Minn.	
" 12	Postum Cereal	53271	" "	1 "	25	Canadian Postum Cereal Co., Ltd., Windsor, Ont.	
" 12	Coffee.....	53272	Charles Bros., Sargent Ave., Winnipeg.	1 "	40	Chase & Sanborn, Montreal.	
" 15	Postum Cereal	53273	Horner's Busy Corner, Brandon.	1 "	25	Canadian Postum Cereal Co., Ltd., Windsor, Ont.	
" 15	Coffee ..	53274	Carrick & Clements, Brandon.	1 "	45	Todhunter, Mitchell Co., Toronto.	
" 15	" .....	53275	J. F. Price, Brandon...	1 "	45	The Estabrook Co., Ltd., St. John, N.B.	
" 16	" .....	53276	McDonald & Forman, Brandon.	1 "	40		Blue Ribbon, Ltd. Winnipeg.
" 16	" .....	53277	Sutherland & Robertson, Brandon.	1 "	40		The Codville Co., Brandon.
" 18	" .....	53278	J. Donnelly, Norwood Grove, Brandon.	1 "	40		McLaren's, Ltd...
" 18	Milk, Sugar & Coffee.	53279	" "	1 "	90	Truro Condensed Milk Co., Truro.	

## DISTRICT OF ALBERTA—

1913.							
Dec. 1	Coffee.....	51860	Hallier & Aldridge, Edmonton.	1 tin.	45	Wm. Braid & Co., Vancouver, B.C.	
" 1	" .....	51861	J. H. Morris & Co., Edmonton.	1 "	45	Blue Ribbon, Ltd., Winnipeg.	



## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		
A. C. LARIVIERE, INSPECTOR.						
Royal Shield Brand.....	Genuine.....		None.....		53260	Genuine Coffee.
.....	".....		".....		53261	"
.....	Roasted grain.	1.0082	Pre- sent.	Trace.....	53262	Trace roasted grain, probably acciden- tal. Doubtful.
.....	Genuine.....		None.....		53263	Genuine coffee.
.....	".....		".....		53264	"
.....	".....		".....		53265	"
.....	".....		".....		53266	"
.....	".....		".....		53267	"
.....	".....		".....		53268	"
.....	".....		".....		53269	"
.....	".....		".....		53270	"
.....			Pre- sent.	Roasted wheat and mol- asses. Postum.	53271	Sold as a coffee sub- stitute.
.....	Genuine.....		None.....		53272	Genuine coffee.
.....			Pre- sent.	Roasted wheat and mol- asses. Postum.	53273	Sold as a coffee sub- stitute.
.....	Genuine.....		None.....		53274	Genuine coffee.
.....	".....		".....		53275	"
.....	".....		".....		53276	"
.....	".....		".....		53277	"
.....	".....		".....		53278	"
Reindeer Brand.....			"	Condensed milk, coffee Cane Sugar, etc.	53279	Condensed coffee, milk, etc.

## A. W. R. MARKLEY, INSPECTOR.

.....	Genuine.....	.....	None.....	.....	51860	Genuine coffee.
.....	".....	.....	".....	.....	51861	"

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ALBERTA—

1913							
Dec.	2 Coffee.....	51862	The Acme Co., Edmon- ton.	1 tin..	50		
"	3 " .....	51863	A. Macdonald & Co., Edmonton.	1 " ..	35		
"	2 " .....	51864	Revillon, wholesale, Ed- monton.	1 " ..	36	Empress Mfg. Co., Vancouver, B.C.	
"	2 " .....	51865	Hudson Bay Co., Ed- monton.	1 " ..	40		
"	4 " .....	51866	Montgomery & West, Wetaskiwin.	1 " ..	45	Georgeson & Co., Calgary.	
"	5 " .....	51867	A. M. Campbell, La- combe.	1 " ..	45	Campbell, Wilson & Horne, Winni- peg.	
"	5 Prepared Coffee.	51868	" "	3 bots. 1.05	R.	Patterson & Sons, Ltd., Glas- gow, Scotland.	
"	11 Coffee.....	51869	S. G. Freeze, Calgary..	1 tin..	50	Kelly, Douglas & Co., Vancouver, B.C.	
"	11 " .....	51870	Hudson Bay Co., Cal- gary.	1 " ..	50	Estabrook Co., Ltd., Vancouver, B.C.	
"	12 " .....	51871	Pryce-Jones (Canada), Ltd., Calgary.	1 " ..	45	Chase & Sanborn, Montreal.	
"	12 " .....	51872	John Irwin & Co., Cal- gary.	1 " ..	50	Dwinell, Wright & Co., Boston and Chicago	
"	12 " .....	51873	" "	1 " ..	1.00	G. Washington Re- fining Co., New York.	
"	12 " .....	51874	J. A. Nolan, Calgary..	1 " ..	50	Chase & Sanborn..	
"	12 " .....	51875	" "	1 " ..	50	Ridgeways, Lon- don, Eng.	
"	13 " .....	51876	Georgeson & Co., Cal- gary.	1 " ..	45	Vendors. ....	
"	13 " .....	51877	" "	1 lb..	30	" .....	
"	13 " .....	51878	L. T. Mewburn & Co., Calgary.	1 " ..	40	" .....	
"	13 " .....	51879	" "	1 tin..	35	" .....	

## DISTRICT OF ROCKY MOUNTAINS—

Dec.	2 Coffee.....	50003	M. Wolverton, Cascade, B.C.	1 lb.	35	J. W. McMillan & Co., Vancouver, B.C.	
"	2 " .....	50004	" "	1 tin.	50	Kelly, Douglas Co., Vancouver, B.C.	
"	4 " .....	50010	N. L. McInnes & Co., Grand Forks, B.C.	1 " ..	50	Empress Mfg. Co., Vancouver, B.C.	
"	4 " .....	50014	McKim & LeRoy, Grand Forks, B.C.	1 " ..	50	Chase & Sanborn, Montreal.	

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Result of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		
<i>Concluded.</i>						
.....	Chicory .....	1.0085	None.	Less than 1% chicory....	51862	Trace chicory; prob- ably accidental.
.....	" .....	1.0124	"	15 to 20% chicory.....	51863	Sold as coffee; as such, is adulter- ated.
.....	Genuine.....	"	"	.....	51864	Genuine coffee.
.....	Chicory .....	1.0151	"	35 to 40% chicory.....	51865	Sold as coffee; as such, is adulter- ated.
.....	Genuine.....	"	"	.....	51866	Genuine coffee.
.....	" .....	"	"	.....	51867	"
.....	" .....	"	"	Coffee extract .....	51868	Extract of coffee.
.....	Genuine.....	"	"	.....	51869	Genuine coffee.
.....	" .....	"	"	.....	51870	"
.....	" .....	"	"	.....	51871	"
.....	" .....	"	"	.....	51872	"
.....	" .....	"	"	Extract in powder form.	51873	Extract of coffee.
.....	Genuine.....	"	"	.....	51874	Genuine coffee.
.....	" .....	"	"	.....	51875	"
.....	" .....	"	"	.....	51876	"
.....	" .....	"	"	.....	51877	"
.....	" .....	"	"	.....	51878	"
.....	" .....	"	"	.....	51879	"

## THOS. PARKER, INSPECTOR.

"Mocha & Java". ....	Genuine.....	None.	.....	50003	Genuine coffee.
"Nobob," .....	" .....	"	.....	50004	"
"Empress" .....	" .....	"	.....	50010	"
.....	" .....	"	.....	50014	"

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ROCKY MOUNTAINS—

1913.							
Dec.	4	Coffee, milk & sugar.	50015	McKim & LeRoy, Grand Fork B.C.	3 tins.	105	Truro Condensed Milk Co., Truro.
"	4	Essence of coffee.	50016	" " "	3 bots.	40	Thos. Symington & Co., Edinburgh and London.
"	15	Coffee	50021	Trail Grocery Co., Trail, B.C.	1 tin.	50	Wm. Braid & Co., Vancouver, B.C.
"	15	"	50022	" " "	1 "	50	W. H. Malkin & Co., Vancouver, B.C.
"	15	"	50023	" " "	1 "	50	Baker Importing Co., New York.
"	15	"	50027	T. Lauriente & Son, Trail, B.C.	1 jar.	50	
"	15	"	50028	" " "	1 tin.	50	Pioneer Coffee & Spice Mills, Victoria, B.C.
"	15	"	50029	Co-operativa Italiana Association, Trail, B.C.	1 "	50	W. A. Jameson, Victoria, B.C.
"	15	"	50030	" " "	1 "	35	
"	17	"	50034	Agnew & Co., Rossland, B.C.	1 "	60	W. A. Jameson Coffee Co., Victoria, B.C.
"	17	"	50035	" " "	1 "	40	W. A. Jameson Coffee Co., Victoria, B.C.
"	17	"	50037	L. Bianchi, Rossland, B.C.	1 "	40	
"	17	Postum.	50039	Hunter Bros., Rossland, B.C.	1 pkge	35	Canadian Postum Cereal Co., Windsor, Ont.
1914.							
Jan.	3	Coffee	50051	Hudson's Bay Co., Nelson, B.C.	1 tin.	45	Wm. Braid & Co., Vancouver, B.C.
"	7	"	50059	R. E. Bell, Salmo, B.C.	1 "	40	
"	7	"	50063	Salmo Trading Co., Salmo, B.C.	1 "	40	W. A. Jameson Coffee Co., Victoria, B.C.

## DISTRICT OF VICTORIA—

1913.							
Dec.	9	Coffee	57699	Windsor Grocery Co., Govt. St., Victoria, B.C.	1 lb.	40	Pioneer Coffee and Spice Mills, Victoria, B.C.
"	9	"	57700	" " "	1 "	45	Wm. Braid & Co., Vancouver, B.C.
"	9	"	57707	Copas & Young, 633 Fort St. Victoria, B.C.	1 "	40	W. H. Malkin Co. Ltd. Vancouver B.C.
"	9	"	57708	" " "	1 "	45	Chase & Sanborn, Montreal.

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		
<i>Concluded.</i>						
			None	Condensed milk, coffee and cane sugar.	50015	Condensed coffee, &c.
			"	Coffee extract.....	50016	Extract of coffee.
"Braid's Best".....	Genuine....		"		50021	Genuine coffee.
"Malkin's" Best.....	".....		"		50022	"
"Barrington Hall.".....	".....		"		50023	"
"Daddy's", .....	Chicory ....	1.0091	"	5% chicory . .....	50027	Sold as coffee, as such is adulterated.
"Empire." Contains chicory.	".....	1.0089	Pres- ent.	".....	50028	Sold as a coffee sub- stitute.
Java & Mocha.....	Genuine....	1.0089	None		50029	Genuine coffee.
"Cosmopolitan"., ...	Chicory and 1 0083		Pres- ent.	10 to 15% chicory and roasted grain.	50030	Sold as coffee, as such is adulterated.
"Victoria." .....	Genuine....	1 0087	None.		50031	Genuine coffee.
"Royal Palm." Contains chicory.	Chicory and 1 0116		Pres- ent.	15 to 20% chicory and roasted grain.	50035	Sold as a coffee sub- stitute.
"Columbia".....	Chicory and 1.0104		"	5 to 10% chicory and roasted peas.	50037	Sold as coffee, as such is adulterated.
	peas.		"	Roasted wheat and molas- ses. Postum.	50059	Sold as a coffee sub- stitute.
"H.B.".....	Genuine . . . .		None.		50051	Genuine coffee.
"Columbia".....	Chicory and 1 0140		Pres- ent.	25 to 30% chicory and roasted peas.	50059	Sold as coffee, as such is adulterated.
"Rainbow" .....	Chicory ....	1.0104	None.	5 to 10% chicory.....	50063	Sold as a coffee sub- stitute.

## D. O'SULLIVAN, INSPECTOR.

Java and Mocha pure coffee.	Genuine....		Pre- sent.	Trace of Starch.....	57699	Genuine coffee.
Brads best coffee.....	".....		None.	.....	57700	"
.....	".....		"	.....	57707	"
"Seal" brand guaranteed to be a combination of fine coffee.	".....		"	.....	5 0	"

6 GEORGE V, A. 1916

BULLETIN No. 290—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VICTORIA—							
1913.							
Dec. 9	Coffee Compound.	57713	Copas & Young, 633 Fort St., Victoria, B.C.	1 lb.	25	The W. H. Malkin Co. Ltd., Vancouver, B.C.	
" 11	Coffee.....	57718	The West End Grocery Co. Ltd., 1002 Govt. St., Victoria, B.C.	1 "	40	W. A. Jameson, Coffee Co., Vancouver, B. C.	
" 11	" .....	57719	" " "	1 "	50	" "	
" 11	" .....	57725	Acton Bros., 1317 Douglas St., Victoria, B.C.	1 "	40	Vendors.	
" 11	" .....	57726	" " "	1 "	45	Kelly Douglas & Co. Ltd., Vancouver, B.C.	
" 12	Coffee Compound.	57734	Dixie H. Ross & Co. 1317 Govt. St., Victoria, B.C.	1 "	60	Vendors.	
" 12	" " "	57735	" " "	1 "	50	" "	
" 12	Coffee.....	57736	" " "	1 "	60	" "	
" 12	" .....	57740	James Adam, 1023 Cook St., Victoria, B.C.	1 "	50	Empress Mfg. Co. Ltd., Vancouver, B.C.	
" 12	" .....	57741	" " "	1 "	50	Baker Impt. Co. New York.	
" 16	" .....	57748	H. O. Kirkham, 741 Fort St., Victoria, B.C.	1 "	50	Vendor.	
" 16	" .....	57749	" " "	1 "	50	Ridgways, London, Eng.	
" 17	" .....	57753	Henry W. Driver, 856 Yates St., Victoria, B. C.	1 "	40	" " "	
" 18	" .....	57757	Erskine & Co. 861 Johnston St., Victoria, B.C.	1 "	40	W. A. Jameson, Coffee Co., Victoria, B.C.	
" 31	" .....	57763	The W. A. Jameson Coffee Co. 754 Broughton St., Victoria, B.C.	1 "	50	Vendors	
" 31	Coffee Compound.	57765	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	1 "	25	" "	

## SESSIONAL PAPER No. 14

## COFFEE AND COFFEE SUBSTITUTES.

Inspector's Report. (Is not an expression of opinion.)	Result of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Qualitative Examination.	Sp. Gr. of a 10% Extract.	Iodine Re- action for Starch.	Found.		
<i>Concluded.</i>						
"Red Label" brand. . . . .	Chicory and 1:0121 peas.	Pre- sent.	About 75% coffee and 25% chicory and peas.	57713	Sold as a coffee sub- stitute.	
.....	Genuine .. .. .	None.	.....	57718	Genuine coffee.	
.....	" .. .. .	"	.....	57719	"	
.....	" .. .. .	"	.....	57725	"	
"Nabob" brand. ....	" .. .. .	"	.....	57726	"	
Contains chicory. ....	Chicory ..... 1:0099	"	About 95% coffee and 5 % chicory.	57734	Sold as a coffee sub- stitute.	
" .. .. .	Genuine .. .. .	"	.....	57735	Genuine coffee.	
.....	" .. .. .	"	.....	57736	"	
Empress brand. ....	" .. .. .	"	.....	57740	"	
Bakerized, Barrington Hall coffee. ....	" .. .. .	"	.....	57741	.....	
.....	" .. .. .	"	.....	57748	"	
Ridgways, A.D. ....	" .. .. .	"	.....	57749	"	
Ridgways pure coffee. . . .	" .. .. 1:0093	Pre- sent.	Starch only in traces. . . .	57753	.....	
Contains about 2oz. chic- ory to the lb.	Chicory ..... 1:0100	None.	5 to 10% chicory. ....	57757	Sold as a coffee sub- stitute.	
Jameson Victoria brand choice Java and Mocha coffee. ....	Genuine .. .. .	"	.....	57763	Genuine coffee.	
Cereal compound, coffee, chicory.	Roasted Grain. 1:0091	Pre- sent	About 90% coffee and 10 % grain.	57765	Sold as a coffee sub- stitute.	

## APPENDIX G.

## BULLETIN No. 291—FERTILIZERS.

OTTAWA, October 9th, 1914.

J. U. VINCENT, Esq.,  
Deputy Minister,  
Inland Revenue.

SIR,—I have the honour to report upon 480 samples of Fertilizers, collected throughout Canada by our inspectors in March and April of this year

The Fertilizers Act, 1909, requires that our inspectors shall obtain for analysis a sample of every fertilizer for sale in the District for which he is appointed. It is believed that the present report meets the above requirement in so far as our inspectors have been able to fulfil it. Many sales of fertilizers are made through agents who merely take orders, and cause delivery to be made direct to the customers from the factory; and it may happen that the particular Brand of fertilizer delivered is not found in stock at any of the warehouses visited by our inspectors.

Section 10 of the Act provides that any purchaser of a fertilizer may secure analysis of the article supplied to him, on payment of a nominal fee of one dollar. A constantly increasing number of considerable purchasers find it worth while to protect themselves under this provision.

The subjoined summary gives the results of analysis:—

Found to meet guaranty under which sold.....	419 samples.
" of guaranteed value (compensates).....	11 "
" of mistaken identification .....	3 "
" nearly up to the guaranty, and may be passed .....	9 "
" deficient in phosphoric acid .....	10 "
" " potash .....	16 "
" not registered .....	12 "
Total .....	480 samples.

It is highly satisfactory to note that there is no evidence of purposeful fraud on the part of manufacturers of fertilizers. The deviations which are observed from guaranteed analysis are all explicable as unintentional mistakes, on the part of the manufacturer, either in weighing or inefficient mixing. This has reference to those samples in which no doubt exists as to specific identity of the sample analysed with the sample as guaranteed.

In cases where the discrepancy is small and where the ingredients are so introduced that deficiency of one component is accompanied by excess of another such that the total value is not less than the guaranteed value, I have used the word *compensated*. In such case, the purchaser receives value, although it may not be in the particular component named in the guaranty. Of course this position could not be taken where the deficiency was at all considerable, since the particular results sought to be obtained by the purchaser might then be endangered, or made impossible.



## SESSIONAL PAPER No. 14

Much unnecessary trouble in fertilizer inspection results from doubtful identity of the sample analysed with the guaranty furnished. In most cases this is due to altogether unjustifiable carelessness on the part of the vendor. It cannot be too forcibly impressed upon all who have to do with the sale of fertilizers that every parcel sold must bear a registration number, and that this number legally identifies the brand.

Sometimes the vendor makes a statement to the effect that he thinks or believes that the sample taken by our inspector, represents such and such fertilizer. This leaves the whole matter in uncertainty, and such a statement of probability would fully warrant the inspector as reporting the sample as bearing no registration number, thereby bringing the vendor under the penalties imposed by Section 15 of the Act.

The sale of unregistered fertilizers must be absolutely put a stop to. It deprives the purchaser of all security as to values, and is unfair to the manufacturer who lives up to the requirements of the Act. Excuses offered, such as the loss of tags, the effacement of labels, accidental substitution of wrong numbers cannot be held as valid. The dealer must accept full responsibility for having every parcel of fertilizer sold by him, legally identifiable by having the registration number of the brand attached in legible character.

I would respectfully advise publication of this report as Bulletin No. 291.

I have the honour to be, Sir,  
Your Obedient Servant,

A. MCGILL,  
*Chief Analyst.*

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF NOVA SCOTIA—

1914.								
April 15	10% Potato phosphate.	53901	A. L. Melvin & Co., N.S. Halifax,	3 lbs.	Nil.	Nova Scotia Fert. Co., Halifax, N.S.	Mfrs.....	.....
" 15	Basic slag ....	53902	" " " "	3 "	"	Staackman & Co., Anvers, Belgium.	Nova Scotia Fert. Co., Halifax, N.S.	.....
" 15	Ground bone....	53903	" " " "	3 "	"	Nova Scotia Fert. Co., Halifax, N.S.	Mfrs.....	.....
" 15	Ceres Brand....	53904	" " " "	3 "	"	" " " "	" " " "	.....
" 15	Potato phosphate.	53905	" " " "	3 "	"	" " " "	" " " "	.....
" 15	Empress Brand.	53906	Halifax Seed Co., Halifax, N.S.	3 "	"	Lowell Fert. Co., Windsor, N.S.	Colonial Fert. Co., Windsor, N.S.	.....
" 15	Ground bone. . .	53907	" " " "	3 "	"	" " " "	" " " "	.....
" 15	Potato manure..	53908	" " " "	3 "	"	" " " "	" " " "	.....
" 15	Acid phosphate.	53909	" " " "	3 "	"	Colonial Fert. Co., Windsor, N.S.	Mfrs.....	.....
" 21	U. F. C. Basic slag.	53910	United Fruit Co., Kentville, N.S.	3 "	"	Cross Fert. Co., Sydney, N.S.	" " " "	.....
" 21	A. Quality Basic slag.	53911	" " " "	3 "	"	" " " "	" " " "	.....
" 21	A. A. C. High-grade with 10% phosphate of Lime. "X.L." Brand.	53912	Burgess & Co., Wolfville, N.S.	3 "	"	Am. Agr. Chem. Co., New York	" " " "	.....
" 21	Bradley's Superphosphate of Lime. "X.L." Brand.	53913	" " " "	3 "	"	" " " "	" " " "	.....
" 21	Soluble Pacific guano.	53914	" " " "	3 "	"	" " " "	" " " "	.....
" 21	Bradley's potato manure.	53915	" " " "	3 "	"	" " " "	" " " "	.....
" 21	Potato and vegetable phosphate.	53916	Burgess & Co., Wolfville, N.S.	3 "	"	Bowker Fert. Co., Boston, Mass.	" " " "	.....
" 21	Sure Crop Brand	53917	" " " "	3 "	"	" " " "	" " " "	.....
" 22	6% Potato fertilizer.	53918	F. W. Dimock, Windsor, N.S.	3 "	"	" " " "	" " " "	.....
" 22	Superphosphate with potash.	53919	" " " "	3 "	"	" " " "	" " " "	.....
" 22	New England potato grower.	53920	New England Fertilizer Co., Windsor, N.S.	3 "	"	Vendors.....	" " " "	.....

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.						
		Total: including that of Nitric Acid or Ammonia if present	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.		

R. J. WAUGH, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
41	As guaranteed	2.50	2.50	...	...	2.0	8.0	6.0	10.0	...	53901	Meets guarantee.
	As found.....	2.80	3.40	...	8.52	1.98	10.50	8.52	10.80	...		
971	As guaranteed	...	...	...	12.0	2.0	14.0	...	...	...	53902	"
	As found.....	...	...	...	12.05	...	13.80	...	...	...		
44	As guaranteed	...	3.0	...	...	...	23.0	...	...	...	53903	Value fully compensated.
	As found.....	3.36	4.08	...	...	...	21.68	...	...	...		
37	As guaranteed	...	2.0	...	...	2.0	9.0	7.0	2.0	...	53904	Meets guarantee.
	As found.....	2.44	2.95	...	8.89	3.04	11.93	8.89	3.11	...		
(58)	As guaranteed	...	2.0	...	...	2.0	9.0	7.0	4.0	...	53905	"
	As found.....	2.44	2.95	...	8.94	2.71	11.65	8.94	5.41	...		
802	As guaranteed	1.24	1.50	4.0	3.0	1.0	8.0	7.0	2.0	...	53906	"
	As found.....	1.79	2.18	4.75	2.46	1.07	8.28	7.21	3.01	...		
807	As guaranteed	2.46	3.0	...	...	...	23.0	...	...	...	53907	"
	As found.....	2.55	3.14	...	...	...	27.90	...	...	...		
804	As guaranteed	1.64	2.0	3.0	4.0	1.0	8.0	7.0	4.0	...	53908	"
	As found.....	2.32	2.82	3.03	4.18	1.34	8.75	7.21	4.19	...		
859	As guaranteed	...	...	...	...	...	15.0	14.0	...	...	539.9	1% low in available phosphoric acid.
	As found.....	...	...	...	12.93	2.34	15.27	12.93	...	...		
901	As guaranteed	...	...	...	14.40	...	...	...	...	...	53910	Meets guarantee.
	As found.....	...	...	...	15.75	...	16.70	...	80.5	...		
557	As guaranteed	...	...	...	12.80	...	...	...	...	...	53911	"
	As found.....	...	...	...	15.30	...	16.00	...	...	...		
183	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	10.0	...	53912	"
	As found.....	2.74	3.80	2.83	3.97	1.15	7.95	6.80	10.08	...		
2	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	1.5	...	53913	"
	As found.....	2.40	2.92	3.70	4.36	1.32	9.38	8.06	1.74	...		
14	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	1.5	...	53914	"
	As found.....	2.60	3.14	4.30	4.71	1.34	10.35	9.01	1.91	...		
190	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	5.0	...	53915	"
	As found.....	2.30	2.79	2.35	3.98	1.00	7.33	6.33	4.52	...		
92	As guaranteed	1.65	2.6	6.0	2.0	1.0	9.0	8.0	2.0	...	53916	"
	As found.....	1.93	2.35	6.03	2.87	1.00	9.90	8.90	1.51	...		
97	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0	...	53917	"
	As found.....	1.13	1.38	7.93	2.16	0.86	10.95	10.09	2.08	...		
96	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	...	53918	"
	As found.....	0.97	1.17	3.55	3.33	1.42	8.30	6.43	6.43	...		
99	As guaranteed	...	...	6.0	4.0	1.0	11.0	10.0	2.0	...	53919	"
	As found.....	...	...	6.53	3.43	1.09	11.05	9.96	2.38	...		
817	As guaranteed	2.46	3.0	3.0	3.0	1.0	7.0	6.0	10.0	...	53920	"
	As found.....	2.80	3.40	3.75	2.47	0.38	6.60	6.22	9.30	...		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an exp <sup>o</sup> ession of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1914.								
April 22	Lowell potato grower.	53921	Lowell Fert. Co., Windsor, N.S.	3 lbs.	Nil.	Vendors .....		
" 22	Essex fish and potash.	53922	Essex Fert. Co., Windsor, N.S.	3 "	"	" .....		
" 22	Eureka superphosphate.	53923	Pidgeon Fert. Co., Windsor, N.S.	3 "	"	" .....		
" 22	Essex complete manure.	53924	Essex Fert. Co., Windsor, N.S.	3 "	"	" .....		
" 22	Colonial potato grower.	53925	Colonial Fert. Co., Windsor, N.S.	3 "	"	" .....		
" 24	Basic slag.....	53926	Amherst Trading Co., Amherst, N.S.	3 "	"	Anglo-Continental Guano Works, London, Eng.	Mfrs.....	
" 25	Thomas phosphate powder. Basic slag.	53927	H. H. McNutt, Truro, N.S.	3 "	"	Unknown...	Nitrate Agencies, New York.	
" 27	Imperial superphosphate.	53928	E. D. Smith, Dartmouth, N.S.	3 "	"	Prov. Chem. Co., St. John, N.B.	Mfrs.....	
" 27	Potato manure..	53929	"	3 "	"	" .....	" .....	
" 27	Special potato phosphate.	53930	"	3 "	"	" .....	" .....	
" 28	High grade potato grower. 4-8-10 Brand.	53931	United Fruit Co., Kingsport, N.S.	3 "	"	Baugh & Sons Co., Philadelphia and Norfolk, U.S.A.	" .....	No tag attached; no reg. number on.
" 28	Fertilizer.....	53932	United Fruit Co., Kingsport, N.S.	3 "	"	R. S. R. Rositz, South America	Baugh & Sons Co., Phila. and New York.	No tag attached or no number on bag. Said to be ground bone.
" 28	16% Acid Phosphate.	53933	"	3 "	"	Unknown .....	" .....	No tag attached or reg. no. on bag.
" 28	Fish, Bone and Potash 4, 4, 8 Brand.	53934	"	3 "	"	Baugh & Son, Co., Phila. and New York.	Manufacturer.	No tag or registration on bag.

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.						Potash.	Fineness.		
		Total, including that of Nitric Acid or Ammonia if present	Total Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
<i>Concluded.</i>													
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
797	As guaranteed	3.28	4.0	3.0	3.0	1.0	7.0	6.0	10.0	...	53921	Potash nearly 1	
	As found.....	4.20	5.10	4.25	1.90	0.61	6.75	6.15	9.06	.....		p.c. too low; compensated by excess nitrogen.	
792	As guaranteed	2.0	2.5	4.0	4.0	1.0	9.0	8.0	3.0	.....	53922	Meets guarantee.	
	As found....	2.40	2.92	5.33	2.49	1.33	9.15	7.82	3.28	.....			
779	As guaranteed	1.64	2.0	1.0	4.0	1.0	9.0	8.0	3.0	.....	53923	"	
	As found.....	1.82	2.21	6.05	2.21	0.97	9.23	8.26	2.49	.....			
788	As guaranteed	3.28	4.0	3.0	3.0	1.0	7.0	6.0	10.0	.....	*53924	Potash about 4	
	As found. ....	2.66	3.23	4.58	2.99	1.76	9.33	7.57	5.87	.....		p.c. deficiency.	
765	As guaranteed	3.28	4.0	3.0	3.0	1.0	7.0	6.0	10.0	...	53925	Meets guarantee.	
	As found.....	3.30	4.01	5.88	2.20	0.90	8.98	8.08	9.06	.....			
106	As guaranteed	.....	.....	.....	11.0	.....	.....	.....	80.0	.....	52926	"	
	As found.....	.....	.....	.....	12.90	.....	13.50	.....	80.5	.....			
969	As guaranteed	...	..	.....	14.0	3.0	17.0	.....	80.0	.....	53927	Meets guarantee	
	As found. ....	.....	.....	.....	16.60	.....	18.0	.....	76.9	.....		except in fineness; value satisfactory; compensated.	
69	As guaranteed	...	3.0	...	.....	.....	10.0	...	1.5	.....	53928	Meets guarantee.	
	As found.....	3.05	3.70	.....	.....	.....	9.78	.....	2.70	.....			
70	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	4.0	.....	53929	"	
	As found.....	2.52	3.06	.....	.....	.....	8.30	.....	4.58	.....			
63	As guaranteed	.....	2.5	.....	.....	.....	8.0	.....	6.0	.....	53930	Potash low; compensated by excess nitrogen and phosphoric acid.	
	As found.....	2.83	3.43	.....	.....	.....	9.50	.....	4.75	.....			
(853)	As guaranteed	3.30	4.0	.....	.....	.....	8.0	10.0	.....	.....	53931	No registration number. Explanation satisfactory. Meets guarantee.	
	As found.....	3.25	3.94	.....	8.77	1.31	10.08	8.77	10.22	.....			
(850)	As guaranteed	.....	3.0	.....	.....	.....	23.0	.....	.....	.....	53932	Meets guaranty, absence of tag explained.	
	As found.....	2.52	3.06	.....	.....	.....	24.78	.....	.....	.....			
(848)	As guaranteed	.....	.....	.....	.....	0.30	16.30	16.0	.....	.....	53933	"	
	As found.....	0.15	0.19	.....	15.92	2.61	18.53	15.92	.....	.....			
1061	As guaranteed	3.30	4.0	6.22	1.78	1.72	9.72	8.0	4	.....	53934	"	
	As found.....	3.29	4.0	.....	7.85	1.85	9.70	7.85	4.46	.....			

\* Manufacturers claim that 787 was supplied instead of 788, in which case the finding would be up to aranteo.

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF PRINCE EDWARD ISLAND—								
1914.								
May 22	Nitrate of Soda.	60102	Auld Bros., Ch.-Town, P.E.I.	5 lbs.	20		Nitrate Agencies Co., New York	
" 22	Superphosphate.	60103	" ..	3 "	19	Thos. Vickers & Sons, Ltd., Manchester, Eng.		
" 22	Sulphate of Pot-ash.	60104	" ..	4 "	14	Germ. Kali Wks Leopoldshall Stassfurt, Ger.		
" 28	Muriate of Pot-ash.	60105	" ..	3 "	10	" ..		
June 27	Superphosphate.	60106	A. Horne & Co., Charlottetown, P.E.I.	3 "	...	Alex. Cross & Sons, Ltd., Glasgow, Scot.		
" 27	Nitrate of Soda.	60107	" ..	5 "	...		Nitrate Agencies Co., New York	
" 27	Muriate of Pot-ash.	60108	" ..	3 "	...	Germ. Kali Wks Leopoldshall, Stassfurt, Ger.		
" 27	Superphosphate.	60109	" ..	3 "	...		Nitrate Agencies Co., New York	

## DISTRICT OF NEW BRUNSWICK—

Mar. 5	Stockbridge Complete Manure	59401	D. J. Seely & Son, St. John, N.B.	3 jars.	10	The BowkerFert. Co., Boston, Mass.	Manufac-turers.	.....
" 5	Potato and Vegetable Brand.	59402	" ..	3 "	10	" ..	" ..	.....
" 5	6% Potato Brand	59403	" ..	3 "	10	" ..	" ..	.....
" 5	Sure Crop Brand	59404	" ..	3 "	10	" ..	" ..	.....
" 4	Farm and Garden Brand.	59405	" ..	3 "	10	" ..	" ..	.....
" 6	Market Garden Brand.	59406	" ..	3 "	10	" ..	" ..	.....
" 6	Square Brand...	59407	" ..	3 "	10	" ..	" ..	.....
" 6	Fresh Ground Bone.	59408	" ..	3 "	10	" ..	" ..	.....
" 14	Special Potato Phosphate.	59409	Prov. Chem. Fert. Co., Ltd., St. John, N.B.	3 "	10	Vendors. ....	.....	.....
" 14	Complete Potato Grower.	59410	" ..	3 "	10	" ..	.....	.....

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.e.		Phosphoric Acid p. c.								
		Total: including that of Nitric Acid or Ammonia if present	Total: Calculated as Ammonia.	Soluble in water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

## WM. A. WEEKS, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
179	As guaranteed	15.9	18.23	.....	.....	.....	.....	.....	.....	.....	60102	Meets guaranty.
	As found. ....	15.06	18.29	.....	.....	.....	.....	.....	.....	.....		
324	As guaranteed	.....	.....	.....	.....	.....	.....	16.0	.....	.....	60103	"
	As found. ....	0.21	0.26	.....	.....	.....	2.12	18.13	16.01	.....		
306	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.0	.....	60104	Nearly up to guaranty.
	As found. ....	.....	.....	.....	.....	.....	.....	.....	46.79	.....		
	As found. ....	.....	.....	.....	.....	.....	.....	.....	50.27	.....	60105	Not registered.
327	As guaranteed	.....	.....	16.0	.....	.....	.....	.....	.....	.....	60106	Meets guaranty.
	As found. ....	.....	.....	17.0	.....	.....	.....	.....	.....	.....		
255	As guaranteed	15.0	.....	.....	.....	.....	.....	.....	.....	.....	60107	"
	As found. ....	15.79	19.16	.....	.....	.....	.....	.....	.....	.....		
691	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.0	.....	60108	"
	As found. ....	.....	.....	.....	.....	.....	.....	.....	51.55	.....		
992	As guaranteed	.....	.....	15.0	2.0	.....	.....	17.0	.....	.....	60109	Slight deficiency in available phosphoric acid.
	As found. ....	.....	.....	15.15	0.69	2.26	18.10	15.84	.....	.....		

## J. C. FERGUSON, INSPECTOR.

88	As guaranteed	3.29	4.0	4.0	2.0	1.0	7.0	6.0	10.0	.....	59401	Meets guaranty.
	As found. ....	4.22	4.64	3.42	2.55	1.45	7.43	5.98	10.46	.....		
92	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	59402	"
	As found. ....	2.35	2.85	4.15	3.69	1.56	9.40	7.84	2.20	.....		
96	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	59403	"
	As found. ....	1.64	2.10	1.83	5.0	1.30	8.13	6.83	6.37	.....		
97	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	59404	"
	As found. ....	0.91	1.10	6.50	1.92	1.28	9.70	8.42	2.34	.....		
94	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	59405	"
	As found. ....	1.85	2.24	3.83	4.61	1.84	10.28	8.44	2.41	.....		
90	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	10.0	.....	59406	"
	As found. ....	3.07	3.72	2.98	4.28	1.04	8.30	7.26	10.48	.....		
95	As guaranteed	1.65	2.0	4.0	2.0	1.0	7.0	6.0	2.0	.....	59407	"
	As found. ....	2.28	2.77	3.00	4.59	1.59	9.18	7.59	3.51	.....		
101	As guaranteed	2.47	3.0	.....	.....	.....	20.59	.....	.....	.....	59408	"
	As found. ....	2.79	3.38	.....	.....	.....	20.75	.....	.....	.....		
63	As guaranteed	.....	2.50	.....	.....	.....	8.0	.....	6.0	.....	59409	"
	As found. ....	2.58	3.12	.....	.....	.....	8.80	.....	6.60	.....		
64	As guaranteed	.....	3.0	.....	.....	.....	6.0	.....	10.0	.....	59410	"
	As found. ....	2.49	3.02	.....	.....	.....	6.98	.....	9.81	.....		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Natur of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an ex- pression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1914.								
Mar. 14	10 % Aroostook Complete Potato.	59411	Prov. Chem. Fert Co., Ltd., St. John, N.B.	3 jars.	10	Vendors..		
"	14 Victor Guano...	59412	"	3 "	10	"		
"	14 Imperial Super-phosphate.	59413	"	3 "	10	"		
"	14 Potato Manure .	59414	"	3 "	10	"		
"	14 Blood Bone and Potash.	59415	"	3 "	10	"		
"	14 Carleton Special	59416	"	3 "	10	"		
"	19 Albert's Basic Slag.	59417	The Anglo-Canadian Chem. Co., St. John, N.B.	3 "	10	H. & E. Albert, London, Eng.	Mfrs. ....	
"	19 Special Odourless Potato Phosphate.	59418	"	3 "	10	"	"	
"	25 Four-Six-Ten...	59419	Dominion Fert. Co., Ltd., St. Stephen, N. B.	3 "	10	Vendors .....		
"	25 Three-Six-Ten ..	59420	"	3 "	10	"		
"	25 Two-Eight-Ten..	59421	"	3 "	10	"		
"	25 Two-Nine-Five .	59422	"	3 "	10	"		
"	25 Two-Eight-Two.	59423	"	3 "	10	"		
"	25 One-Eight-Five.	59424	"	3 "	10	"		
"	25 5-8-7 .....	59425	"	3 "	10	"		
"	25 4-5-8-9 .....	59426	"	3 "	10	"		
"	25 Bradley's X. L. Superphosphate of Lime.	59427	Hill Bros., St. Stephen, N.B.	3 "	10	The Am. Agr. Chem. Co., New York, U. S.A.	Mfrs. ....	
April 7	Special Potato Fert. with 10% Potash.	59428	F. H. Everett, Fredericton, N.B.	3 "	10	Lowell Fert.Co., Windsor, Ont.	"	
"	7 Potato Manure .	59429	"	3 "	10	"	"	
"	7 Empress Brand.	59430	"	3 "	10	"	"	
"	Bradley's Potato Fertilizer.	59431	A. H. Vanwart, Fredericton, N.B.	3 "	10	The Am. Agr. Chem. Co., New York, U. S.A.	"	



## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							No. of Sample.	Remarks and Opinions of the Chief Analyst.
		Nitrogen p.c.	Phosphoric Acid per cent.							
		Total : including that of Nitric Acid or Ammonia if present.	Total : Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.		
								Potash.		
								Fineness.		

Continued.

		p c.	p.c.	p.c.	p c.	p.c.	p.c.	p.c.	p.c.	p.c.		
65	As guaranteed	...	4.0	...	...	...	8.0	...	10.0	...	59411	Meets guarantee.
	As found. ....	3.32	4.02	...	...	...	8.15	...	9.38	...		
68	As guaranteed	...	2.0	...	...	...	7.0	...	2.5	...	59412	"
	As found. ....	2.24	2.72	...	...	...	7.98	...	2.97	...		
69	As guaranteed	...	3.0	...	...	...	10.0	...	1.5	...	59413	"
	As found. ....	2.84	3.45	...	...	...	10.35	...	1.99	...		
70	As guaranteed	...	2.0	...	...	...	7.0	...	4.0	...	59414	"
	As found. ....	1.63	2.01	...	...	...	7.20	...	4.13	...		
71	As guaranteed	...	2.0	...	...	...	7.0	...	4.0	...	59415	"
	As found. ....	1.96	2.38	...	...	...	7.93	...	3.65	...		
890	As guaranteed	3.29	4.0	3.0	1.0	2.0	6.0	4.0	10.0	...	59416	"
	As found. ....	4.72	5.73	3.30	4.30	1.00	8.60	7.60	9.63	...		
1	As guaranteed	...	...	...	...	...	15.0	...	...	...	59417	"
	As found. ....	...	...	...	13.75	...	15.0	...	...	...		
142	As guaranteed	2.0	...	...	...	...	7.0	...	7.0	...	59418	"
	As found. ....	2.50	...	...	...	...	9.18	...	6.24	...		
487	As guaranteed	3.30	4.0	4.0	2.0	1.0	7.0	6.0	10.0	...	59419	"
	As found. ....	3.29	4.0	1.60	4.63	1.05	7.28	6.23	9.71	...		
488	As guaranteed	2.40	3.0	4.0	2.0	1.0	7.0	6.0	10.0	...	59420	"
	As found. ....	3.28	3.98	3.08	3.29	0.83	7.20	6.37	9.85	...		
489	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	10.0	...	59421	"
	As found. ....	2.95	3.58	4.30	4.05	1.08	9.43	8.35	9.88	...		
490	As guaranteed	1.60	2.0	7.0	2.0	1.0	10.0	9.0	5.0	...	59422	"
	As found. ....	1.82	2.21	2.38	6.00	1.47	9.85	8.38	5.58	...		
491	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	2.0	...	59423	"
	As found. ....	1.83	2.22	4.53	3.98	1.49	10.00	8.51	2.20	...		
492	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	...	59424	"
	As found. ....	1.10	1.58	4.78	3.08	1.32	9.18	7.86	5.15	...		
435	As guaranteed	4.10	5.0	6.0	2.0	1.0	9.0	8.0	7.0	...	59425	"
	As found. ....	4.79	5.81	5.65	2.33	1.05	9.03	7.98	7.49	...		
486	As guaranteed	3.70	4.50	6.0	2.0	1.0	9.0	8.0	9.0	...	59426	"
	As found. ....	3.57	4.34	5.80	2.14	1.16	9.10	7.94	9.44	...		
2	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	1.5	...	59427	"
	As found. ....	1.97	2.40	4.40	4.05	0.95	9.40	8.45	1.35	...		
805	As guaranteed	2.46	3.0	3.0	3.0	1.0	7.0	6.0	10.00	...	59428	"
	As found. ....	4.86	5.89	4.54	2.46	0.72	7.72	6.70	10.25	...		
804	As guaranteed	1.64	2.0	3.0	4.0	1.0	8.0	7.0	4.0	...	59429	"
	As found. ....	2.87	3.48	3.63	3.81	1.31	8.75	7.44	5.58	...		
802	As guaranteed	1.24	1.50	4.0	3.0	1.0	8.0	7.0	2.0	...	59430	"
	As found. ....	2.34	2.84	4.89	2.58	0.70	8.17	7.47	3.10	...		
3	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	3.0	...	59431	"
	As found. ....	2.68	3.26	4.45	4.07	0.88	9.40	8.52	3.73	...		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK—

1914.								
April 8	New England Potato Grower with 10% potash.	59432	Samson & McNally, Fredericton, N.B.	3 jars.	10	New England Fertilizer Co., Windsor, N.S.	Mfrs. ....	.....
" 8	New England Potato Fertilizer.	59433	"	3 "	10	"	"	.....
" 8	Peerless Fertilizer.	59434	Samson & McNally, Fredericton, N.B.	3 "	10	New England Fert. Co., Windsor, N.B.	"	.....
" 9	Harab N.B. Potato Manure Extra High Grade with 12 p.c. Potash.	59435	Benn & Tinney, Woodstock, N.B.	3 "	10	The Harris Abattoir Co., Toronto, Ont.	"	These goods were tagged showing Brand Analysis, etc., reg. No. Blank.
" 9 4-7-10.....		59436	Phillips, Estey & Co., Limited, Woodstock, N.B.	3 "	10	The Wm. Davies Co., Ltd., West Toronto, Ont.	"	.....
" 9 3-7-10.....		59437	"	3 "	10	Montreal Abattoir, Ltd., Montreal.	"	.....
" 11	Bradley's Complete Manure with 10 p. c. Potash.	59438	Porter Manzer Co., Ltd., Perth, N.B.	3 "	Nil.	The Am. Agr. Co., New York, U.S.A.	"	.....
" 11	Darling's Blood Bone and Potash.	59439	Porter Manzer Co., Ltd., Andover, N.B.	3 "	"	"	"	.....
" 24	Pacific Potato Special.	59440	Toombs & Son, Moncton, N.B.	3 "	10	"	"	.....
" 24	Pacific Nobsque Guano for all Crops.	59441	"	3 "	10	"	"	.....
" 24	Soluble Pacific Guano.	59442	"	3 "	10	"	"	.....
" 24	Pacific Fine Ground Bone.	59443	"	3 "	10	"	"	.....

DISTRICT OF QUEBEC—

Feb. 25	Phosphate Quebec.	56053	Canac Marquis, Quebec.	.....	.....	Vendor.	.....	.....
" 25	Moncalm.	56054	"	.....	.....	"	.....	.....
" 25	Superphosphate.	56055	"	.....	.....	"	.....	.....
" 25	Géant du Golfe.	56056	"	.....	.....	"	.....	.....

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks an Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
817	As guaranteed	2.46	3.0	3.0	3.0	1.0	7.0	6.0	10.06	.....	59432	Meets guarantee.
	As found.....	3.32	4.03	4.00	2.15	0.70	6.85	6.15	10.16	.....		
814	As guaranteed	1.64	2.0	4.0	3.0	1.0	8.0	7.0	4.0	.....	59433	"
	As found.....	2.03	2.46	3.00	4.05	1.35	8.40	7.05	4.67	.....		
815	As guaranteed	0.82	1.0	4.0	3.0	1.0	8.0	7.0	1.0	.....	59434	"
	As found.....	0.99	1.21	4.75	2.34	1.06	8.15	7.09	1.04	.....		
...	As guaranteed	.....	3.0	.....	.....	.....	.....	9.0	12.0	.....	59435	No reg. number, (4.80) Four-eighty p.c. too low in potash and 1 p.c. in ammonia.
	As found. ....	1.54	1.87	.....	8.69	1.64	10.33	8.69	7.20	.....		
920	As guaranteed	3.29	4.0	.....	.....	1.0	8.0	7.0	10.0	.....	59436	Meets guarantee.
	As found.....	4.50	5.47	Trace.	5.78	1.47	7.25	5.78	9.93	.....		
555	As guaranteed	.....	3.0	.....	.....	.....	.....	7.0	10.0	.....	59437	"
	As found....	2.87	3.48	.....	8.31	2.39	10.70	8.31	9.71	.....		
5	As guaranteed	3.29	4.0	4.0	2.0	1.0	7.0	6.0	10.0	.....	59438	"
	As found....	4.04	4.91	2.50	4.14	1.26	7.90	6.64	10.43	.....		
20	As guaranteed	4.11	5.0	5.0	2.0	1.0	8.0	7.0	7.0	.....	59439	"
	As found. ....	4.87	5.92	3.53	4.09	0.88	8.50	7.62	6.87	.....		
15	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	3.0	.....	59440	"
	As found. ....	2.14	2.60	4.23	3.82	1.20	9.25	8.05	2.73	.....		
16	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0	.....	59441	"
	As found. ....	1.10	1.34	3.28	4.74	1.76	9.78	8.02	2.53	.....		
14	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	1.5	.....	59442	"
	As found.....	2.46	2.99	3.53	3.99	1.21	8.73	7.52	1.68	.....		
25	As guaranteed	2.47	3.0	.....	.....	.....	20.59	.....	.....	.....	59443	"
	As found.....	2.66	3.23	.....	.....	.....	19.88	.....	.....	.....		

F. X. W. E. BELAND, INSPECTOR.

913	As guaranteed	1.65	2.0	6.75	1.25	1.0	9.0	8.0	3.0	.....	56053	Meets guarantee.
	As found.....	1.40	1.70	1.43	9.32	5.28	16.03	10.75	3.88	.....		
914	As guaranteed	1.65	2.0	3.25	0.75	1.0	5.0	4.0	6.0	.....	56054	"
	As found. ....	2.06	2.50	0.68	8.27	4.95	13.90	8.95	6.88	.....		
911	As guaranteed	0.82	1.0	6.0	1.0	1.0	8.0	7.0	2.0	.....	56055	"
	As found. ....	1.06	1.29	1.03	8.17	5.88	15.08	9.20	3.19	.....		
912	As guaranteed	0.82	1.0	3.25	0.75	1.0	5.0	4.0	6.0	.....	56056	"
	As found.....	0.95	1.16	1.48	8.20	3.70	13.38	9.68	7.67	.....		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF QUEBEC—

1914.								
Feb.	25	Nitrate of Soda.	56057	J. B. Renaud & Cie, Quebec.	.....	British Oil and Mfrs. ....	.....	.....
"	25	Sulphate of Potash.	56058	"	.....	Cake Mills, Liverpool, Eng.	.....	.....
"	25	Muriate of Potash.	56059	"	.....	British Oil and Mfrs. ....	.....	.....
"	25	Bilston Basic Phosphate.	56060	"	.....	Cake Mills, Ltd., Liverpool, Eng.	.....	.....
"	27	Thomas Phosphate.	56061	Eug. Julien, Quebec.	.....	Leeds Phosphate Works.	"	.....
"	27	Complete Fertilizer.	56062	"	.....	The Am. Agr. Chem. Co., Buffalo, N.Y.	"	.....
"	27	Canadian Potash.	56063	"	.....	"	"	.....
"	27	Havana Tobacco.	56064	"	.....	"	"	.....
"	27	High Grade Potash.	56065	"	.....	"	"	.....
"	27	Julien's Special Canadian.	56066	"	.....	"	"	.....
"	27	General Tobacco.	56067	"	.....	"	"	.....
"	27	Reliable Fertilizer.	56068	"	.....	"	"	.....
"	27	Sulphate of Potash.	56069	"	.....	German Kali Works, New York.	"	.....
"	27	Muriate of Potash.	56070	"	.....	"	"	.....
"	27	Nitrate of Soda.	56071	"	.....	"	"	.....
Mar.	14	Celtic .....	56074	George Tanguay, Quebec.	.....	Vendor .....	.....	.....
"	14	International...	56075	George Tanguay, Quebec.	.....	"	.....	.....
"	14	Globe, Thomas Phosphate.	56076	"	.....	"	.....	.....
"	14	Monarch.. ..	56077	"	.....	"	.....	.....
"	14	Royal .....	56078	"	.....	"	.....	.....
"	14	Complete Potato	56079	"	.....	"	.....	.....

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen, p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Am- monia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
273	As guaranteed	15.0	18.50	.....	.....	.....	.....	.....	.....	.....	56057	Meets guaranty.
	As found. ....	15.96	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
299	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.0	.....	56058	"
	As found. ....	.....	.....	.....	.....	.....	.....	.....	47.71	.....	.....	.....
443	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50.0	.....	56059	"
	As found. ....	.....	.....	.....	.....	.....	.....	.....	54.74	.....	.....	.....
302	As guaranteed	.....	.....	.....	15.40	3.85	19.25	.....	.....	.....	56060	" "
	As found. ....	.....	.....	.....	15.40	.....	18.53	.....	.....	.....	.....	.....
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	75.0	.....	56061	" "
	As found. ....	.....	.....	.....	14.60	.....	18.95	.....	86.5	.....	.....	.....
335	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	56062	" "
	As found. ....	1.89	2.30	2.20	4.33	1.10	7.63	6.53	6.39	.....	.....	.....
226	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	3.0	.....	56063	" "
	As found. ....	2.55	3.09	2.09	6.13	2.47	10.60	8.13	3.10	.....	.....	.....
685	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	3.0	.....	56064	" "
	As found. ....	2.15	2.62	2.28	5.87	1.88	10.03	8.15	3.34	.....	.....	.....
687	As guaranteed	0.82	1.0	4.0	1.0	1.0	6.0	5.0	10.0	.....	56065	" "
	As found. ....	1.06	1.29	1.15	5.21	1.17	7.53	6.39	9.57	.....	.....	.....
686	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	56066	" "
	As found. ....	2.44	2.96	2.68	5.01	1.86	9.55	7.69	4.15	.....	.....	.....
881	As guaranteed	0.82	1.0	4.0	1.0	1.0	6.0	5.0	7.0	.....	56067	" "
	As found. ....	1.12	1.36	1.83	4.92	1.13	7.88	6.75	6.60	.....	.....	.....
880	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	6.0	.....	56068	" "
	As found. ....	1.85	2.24	1.85	2.49	1.21	5.55	4.34	6.18	.....	.....	.....
692	As guaranteed	.....	.....	.....	.....	.....	.....	.....	47.0	.....	56069	" "
	As found. ....	.....	.....	.....	.....	.....	.....	.....	49.30	.....	.....	.....
691	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.0	.....	56070	" "
	As found. ....	.....	.....	.....	.....	.....	.....	.....	54.89	.....	.....	.....
	As found. ....	15.24	.....	.....	.....	.....	.....	.....	.....	.....	56071	Not registered. Explained.
953	As guaranteed	.....	.....	.....	10.74	1.04	11.78	10.74	5.39	.....	56074	Meets guaranty.
	As found. ....	.....	.....	.....	.....	.....	.....	10.0	5.0	.....	.....	.....
955	As guaranteed	1.65	2.0	.....	.....	.....	.....	8.0	4.0	.....	56075	"
	As found. ....	2.22	2.70	7.28	1.52	0.68	9.48	8.80	5.04	.....	.....	.....
954	As guaranteed	.....	.....	.....	.....	.....	.....	18.0	14.0	.....	59076	"
	As found. ....	.....	.....	.....	14.55	.....	16.35	14.6	86.6	.....	.....	.....
950	As guaranteed	1.65	2.0	.....	.....	.....	.....	9.0	8.0	.....	56077	Nearly up to guarantee.
	As found. ....	1.99	2.41	.....	8.47	0.61	9.08	8.47	7.35	.....	.....	.....
949	As guaranteed	2.47	3.0	.....	.....	.....	.....	8.6	8.0	.....	56078	Meets guarantee.
	As found. ....	1.68	2.04	.....	7.12	0.63	7.75	7.12	11.05	.....	.....	.....
947	As guaranteed	1.65	2.00	.....	.....	.....	.....	6.0	4.0	.....	56079	"
	As found. ....	1.83	2.23	.....	7.65	0.80	8.45	7.65	5.18	.....	.....	.....

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF QUEBEC

1914.								
Mar. 14	International Tobacco.	56080	George Tanguay, Quebec.	.....		Vendor.....		
" 14	Nestor.....	56081	" "	.....		" .....		
" 14	Thos. Phosphate	56082	" "	.....		" .....		
" 14	General Crop...	56083	" "	.....		" .....		
" 14	Jupiter... ..	56084	" "	.....		" .....		
" 14	Globe Super-phosphate.	56085	" "	.....		" .....		
" 14	Union .....	56086	" "	.....		" .....		
" 14	Capital... ..	56087	" "	.....		" .....		
" 30	Fertiliser....	56088	P. T. Legare, Quebec.	.....				
" 30	Victor....	56089	" "	.....		Cap. Chem. and Fert. Co., Buckingham.	Mfr .....	
" 30	Thomas Phosphate.	56090	" "	.....		The Cross Fert. Co., Sydney.	" .....	
" 30	Complete Fertilizer.	56091	" "	.....		Am. Agr. Chem. Co., Buffalo.	" .....	
" 30	Virginia Tobacco.	56092	" "	.....		" " ..	" .....	
" 30	Homestead Dissolved Bone.	56093	" "	.....		" " ..	" .....	
" 30	Fruit and Vine..	56094	" "	.....		" " ..	" .....	
" 30	High Grade Garden and Vegetable Fertilizer.	56234	" "	.....		" " ..	" .....	

## DISTRICT OF QUEBEC—

April 3	Thomas Phosphate.	2516	Pierre Marcoux, La Durantaye.	1½ lb.	10	.....	Eug. Julien, Cie, Ltd., Quebec.	.....
" 3	Nestor. ....	2517	Jos. Leclerc, fils, St. Charles.	1½ "	10	.....	Geo. Tanguay, Ltd., Quebec.	.....

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total : including of Nitric Acid or Ammonia if present.	Total : Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
955	As guaranteed	1.65	2.0	.....	.....	.....	.....	8.0	4.0	.....	56080	Mistake in name of brand. Is a muriate of potash--Inspector's mistake.
	As found.....	0.14	0.17	.....	.....	.....	.....	.....	51.83	.....	.....	
952	As guaranteed	1.65	2.0	.....	.....	.....	.....	8.0	3.0	.....	56081	Meets guarantee.
	As found..	2.32	2.82	.....	8.00	0.65	8.65	8.00	4.02	.....	.....	.....
954	As guaranteed	.....	.....	.....	14.0	.....	.....	.....	.....	.....	56082	Nearly meets guarantee.
	As found..	.....	.....	.....	13.15	.....	13.40	.....	83.3	.....	.....	.....
988	As guaranteed	0.83	1.0	5.5	2.5	1.0	9.0	8.0	4.0	.....	56083	Meets guarantee.
	As found.....	3.11	3.77	8.05	0.53	0.50	9.08	8.58	4.83	.....	.....	.....
948	As guaranteed	2.06	2.50	.....	8.0	.....	.....	8.0	5.0	.....	56084	"
	As found..	3.10	3.77	.....	9.82	0.63	10.45	9.82	5.31	.....	.....	.....
958	As guaranteed	.....	.....	.....	14.0	.....	18.0	.....	60.0	.....	56085	"
	As found..	.....	.....	.....	15.45	1.82	17.28	15.45	.....	.....	.....	.....
945	As guaranteed	2.47	3.0	.....	8.0	.....	.....	8.0	3.5	.....	56086	"
	As found.....	3.36	4.08	.....	9.34	0.71	10.05	9.34	5.67	.....	.....	.....
946	As guaranteed	4.10	5.0	.....	8.0	.....	.....	8.0	6.0	.....	56087	"
	As found.....	4.62	5.61	.....	9.61	0.49	10.10	9.61	7.30	.....	.....	.....
84	As guaranteed	.....	4.0	.....	.....	.....	9.0	.....	5.0	.....	56088	Deficiency in Nitrogen and Potash.
	As found.....	0.35	0.42	.....	.....	.....	10.08	.....	0.29	.....	.....	.....
83	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	2.0	.....	56089	Meets guarantee.
	As found.....	2.52	3.06	.....	.....	.....	9.08	.....	2.84	.....	.....	.....
591	As guaranteed	.....	.....	.....	13.60	.....	17.0	.....	80.0	.....	56090	"
	As found.....	.....	.....	.....	15.30	.....	15.95	.....	81.0	.....	.....	.....
206	As guaranteed	.....	2.0	.....	.....	.....	8.0	.....	4.0	.....	56091	"
	As found.....	1.82	2.21	6.80	2.31	1.22	10.33	9.11	4.62	.....	.....	.....
207	As guaranteed	.....	2.0	.....	.....	.....	8.0	.....	3.0	.....	56092	"
	As found.....	1.75	2.13	6.15	3.00	1.15	10.30	9.15	4.48	.....	.....	.....
202	As guaranteed	.....	.....	10.0	2.0	1.0	13.0	12.0	.....	.....	56093	.....
	As found.....	.....	.....	7.33	4.11	1.11	12.55	11.44	.....	.....	.....	.....
212	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	56094	"
	As found...	3.32	4.03	6.45	2.27	1.16	9.88	8.72	10.66	.....	.....	.....
210	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.00	8.0	6.0	.....	56234	"
	As found.....	1.57	1.79	6.25	2.76	1.17	10.18	9.01	7.67	.....	.....	.....

## O. BROCHU, INSPECTOR.

254	As guaranteed	.....	.....	.....	13.5	.....	18.0	.....	85.0	2516	Nearly 3% below guaranty in phosphoric acid; chiefly insoluble. Practically up to guaranteed value.
	As found.....	.....	.....	.....	14.20	.....	15.20	14.20	90.7	.....	.....
683	As guaranteed	.....	2.0	.....	.....	.....	.....	8.0	3.0	2517	Meets guarantee.
	As found.....	2.38	2.89	.....	9.83	1.00	10.83	9.83	3.73	.....	.....

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF QUEBEC—

1914.								
April 3	Thomas Phosphate.	2518	Jos. Leclerc, fils, 1½ lb. St. Charles.	10			G. Tanguay, Ltd., Que.	
" 3	Monarch .....	2519	" " .. 1½ "	10			" ..	
" 3	Union .....	2520	" " .. 1½ "	10			" ..	
" 3	Thomas Phosphate.	2521	F. X. Bolduc, St. 1½ " Raphael east.	10			P. T. Legaré Ltd., Quebec.	
" 3	Jupiter .....	2522	Jos. Leclerc, fils, 1½ " St. Charles.	10			Geo. Tanguay, Ltd., Quebec.	
" 3	Celtic .....	2523	" " .. 1½ "	10			" ..	
" 3	Royal .....	2524	" " .. 1½ "	10			" ..	
" 3	Thomas Phosphate.	2525	Joseph Asselin. 1½ "	10			P. T. Legaré Ltd., Quebec.	
" 3	International ..	2526	Raphael Bilo-deau, St. Laz- 1½ " are.	10			Geo. Tanguay Ltd., Quebec.	
" 3	Thomas Phosphate.	2527	J. N. Belanger, 1½ " St. Lazare.	10			P. T. Legaré Ltd., Quebec.	
" 3	" ..	2528	Cyrille Fournier, 1½ " St. Sabine.	10			Eugene Julien Ltd., Quebec.	
" 3	" ..	2529	Joseph Gadbout, 1½ " St. Nérée.	10			" ..	
" 3	" ..	2530	Wilfrid Roy, St. 1½ " Damien.	10			" ..	
" 3	Royal .....	2531	Raphael Bilo-deau, St. Laz- 1½ " are.	10			Geo. Tanguay Ltd., Quebec.	
" 3	Nestor .....	2532	Protais Isabelle, 1½ " Armagh.	10			" ..	
" 3	Thomas Phosphate.	2533	" .. 1½ "	10			" ..	
" 3	Union .....	2534	" .. 1½ "	10			" ..	

## DISTRICT OF THREE RIVERS—

Mar. 4	Victor .....	59789	Frs. Rivest, Jol- 3 lb. iette.	Nil.		Cap. Chem. Fert. Co., Buckingham.		
" 4	Fertilizer .....	60905	Simon Forest, L. 3 " Epiphanie.	"		Am. Agr. Chem. Co., Buffalo, N.Y.		



## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total; including that of Nitric Acid or Ammonia if present	Total; Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

*Concluded.*

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
951	As guaranteed	.....	.....	.....	12.0	.....	.....	.....	.....	.....	2518	Meets guarantee.
	As found.....	.....	.....	.....	16.35	.....	17.35	.....	.....	82.5		
950	As guaranteed	.....	2.0	.....	.....	.....	.....	9.0	8.0	.....	2519	"
	As found.....	2.31	2.80	.....	9.93	0.67	10.60	9.93	7.34	.....		
945	As guaranteed	.....	3.0	.....	8.0	.....	.....	8.0	3.5	.....	2520	"
	As found.....	2.52	3.06	.....	8.85	0.95	9.80	8.85	4.38	.....		
591	As guaranteed	.....	.....	.....	13.60	.....	.....	.....	.....	.....	2521	"
	As found.....	.....	.....	.....	13.30	.....	13.85	.....	.....	84.8		
948	As guaranteed	2.06	2.5	.....	8.0	.....	.....	8.0	5.0	.....	2522	"
	As found....	2.91	3.54	.....	9.95	0.65	10.60	9.95	5.76	.....		
953	As guaranteed	.....	.....	.....	10.0	.....	.....	10.0	5.0	.....	2523	Meets guaranteed value.
	As found.....	.....	.....	7.88	1.02	0.43	9.33	8.90	5.39	.....		Compensated
949	As guaranteed	2.47	3.0	.....	.....	.....	.....	8.0	8.0	.....	2524	Meets guarantee.
	As found....	1.90	2.31	.....	9.68	0.82	10.50	9.68	7.65	.....		
591	As guaranteed	.....	.....	.....	13.60	.....	.....	.....	.....	.....	2525	Nearly meets guarantee.
	As found.....	.....	.....	.....	12.70	.....	13.30	.....	.....	86.9		
948	As guaranteed	2.06	2.5	.....	8.0	.....	.....	8.0	5.0	.....	2526	Meets guarantee.
	As found....	2.20	2.67	.....	7.49	0.74	8.23	7.49	4.25	.....		
591	As guaranteed	.....	.....	.....	13.60	.....	.....	.....	.....	.....	2527	"
	As found.....	.....	.....	.....	14.20	.....	14.60	.....	.....	84.9		
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	.....	80.0	2528	
	As found.....	.....	.....	.....	16.15	.....	17.75	.....	.....	89.6		
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	.....	80.0	2529	"
	As found....	.....	.....	.....	15.10	.....	19.90	.....	.....	82.6		
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	.....	80.0	2530	"
	As found.....	.....	.....	.....	11.70	.....	19.85	.....	.....	86.6		
949	As guaranteed	2.47	3.0	.....	.....	.....	.....	8.0	8.0	.....	2531	"
	As found....	2.45	2.98	.....	10.25	0.75	11.00	10.25	7.96	.....		
683	As guaranteed	.....	2.0	.....	.....	.....	.....	8.0	3.0	.....	2532	"
	As found....	2.10	2.53	.....	9.36	0.97	10.33	9.36	4.31	.....		
584	As guaranteed	.....	.....	.....	12.0	.....	.....	.....	.....	.....	2533	"
	As found.....	.....	.....	.....	15.15	.....	16.60	.....	.....	.....		
507	As guaranteed	2.47	3.0	.....	8.0	.....	.....	8.0	3.5	.....	2534	"
	As found....	1.82	2.21	.....	10.15	1.38	11.53	10.15	4.40	.....		

DR. V. P. LAVALLEE, INSPECTOR.

83	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	3.0	.....	59789	Meets guarantee.
	As found....	1.82	2.21	.....	.....	.....	14.0	.....	2.93	.....		
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	60905	"
	As found.....	1.99	2.41	3.40	5.84	1.41	10.65	9.24	4.31	.....		"

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF THREE RIVERS—

1914.								
Mar.	5	Fertilizer.....	60906 Simon Forest, L. Epiphanie.	3 lbs.	Nil.	Am. Agr. Chem. Co., Buffalo, N.Y.		
"	5	" .....	60907 L. Provost, L. Epiphanie.	3 " ..	10	Lesage Pack and Fert. Co., Montreal.		
"	6	" .....	60908 " .....	3 " ..	10	" .....		
"	6	Bowker's Potash Bone.	60909 J. A. Coutu, St. Felix de Valois.	3 " ..	Nil.	Bowker's Fert. Co.		
"	7	Bowker's Superphosphate with Potash.	60910 " " ..	3 " ..	"	" .....		
"	7	Fertilizer .....	60911 " " ..	3 " ..	"	" .....		
"	7	" .....	60927 Chevalier et fils, Joliette.	3 " ..	10	Prov. Chem. Fert. Co., Ltd., St. John, N.B.		

## DISTRICT OF EASTERN TOWNSHIPS—

Mar.	5	Complete Fertilizer.	60802 P. T. Legare, Ltd., St. Hyacinthe.	3 jars.	....	Cap. Chem. and Fert. Co., Buckingham.		
"	9	North Western Havana Tobacco Grower.	60803 A. V. Gadbois, Rougemont.	3 " ..	....		E. Julien, Quebec.	
"	9	6% Potato Fertilizer.	60804 Emile Gadbois, Rougemont.	3 " ..	....	Bowker Fert. Co., Boston.		
"	9	Thomas Phosphate.	60805 A. V. Gadbois, Rougemont.	3 " ..	....	Leeds Phosphate Works, Ltd., Leeds, Eng.		
"	9	North Western High Grade Potash Fertilizer.	60806 " " ..	3 " ..	....	The Am. Agr. Chem. Co., New York.		
"	10	Thomas Phosphate.	60807 W. Brodeur, St. Cesaire.	3 " ..	....	Leeds Phosphate Works, Ltd., Leeds, Eng.		Registered No. cannot be found.
"	10	North Western Reliable Fertilizer.	60808 " " ..	3 " ..	....		E. Julien, Quebec.	
"	10	Tucker's Potato and Tobacco Fertilizer.	60809 M. McKerley, Abbotsford.	3 " ..	....	The Am. Agr. Chem. Co.		

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.						Potash.	Fineness.	No. of Sample.	Remarks and Opinions of the Chief Analyst.
		Nitrogen p c.		Phosphatic Acid per cent.							
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.				

*Concluded.*

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
207	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	...	60906	Meets guarantee.
	As found. ....	2.03	2.46	3.65	5.55	1.65	10.85	9.20	4.23	.....		
448	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	7.0	...	60907	" "
	As found. ....	1.82	2.21	.....	4.27	2.31	6.58	4.27	7.42	.....		
163	As guaranteed	1.0	1.25	.....	7.0	1.0	8.0	.....	1.0	.....	60908	" "
	As found. ....	1.47	1.78	.....	5.95	2.73	8.68	5.95	3.10	.....		
404	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	2.0	.....	60909	" "
	As found. ....	1.12	1.36	4.40	4.31	1.37	10.08	8.71	3.61	.....		
402	As guaranteed	.....	.....	6.0	4.0	1.0	11.0	10.0	2.0	.....	60910	" "
	As found. ....	.....	.....	8.38	1.95	1.05	11.38	10.33	2.61	...		
772	As guaranteed	0.82	1.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	60911	" "
	As found. ....	0.89	0.97	6.38	3.31	1.31	11.0	9.69	2.55	.....		
67	As guaranteed	.....	.....	.....	.....	.....	12.0	.....	2.0	.....	60927	" "
	As found. ....	.....	.....	.....	11.96	1.39	13.35	11.96	2.18	...		

J. C. ROULEAU, INSPECTOR.

929	As guaranteed	.....	2.0	.....	.....	.....	8.0	.....	4.0	.....	60802	Meets guarantee.
	As found. ....	2.22	2.70	.....	6.21	3.62	9.83	6.21	3.28	.....		
686	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	60803	" "
	As found. ....	2.38	2.89	4.95	3.12	1.31	9.38	8.07	4.0	.....		
96	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	60804	One and a half p.c. low in potash. Compensated value in nitrogen.
	As found. ....	1.68	2.04	3.04	4.36	1.35	8.75	7.46	4.58	.....		
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	80.0	.....	60805	Meets guarantee.
	As found. ....	.....	.....	.....	13.60	.....	18.0	.....	83.0	.....		
637	As guaranteed	0.82	1.0	4.0	1.6	1.0	6.0	5.0	10.0	.....	60806	" "
	As found. ....	1.82	2.38	2.89	2.17	1.07	6.13	5.06	10.08	.....		
...	As found. ....	.....	.....	.....	13.95	.....	18.25	.....	85.5	.....	60807	No registration number on bag. Doubtless 253; and meets guarantee.
880	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	6.0	.....	60808	Meets guarantee.
	As found. ....	1.01	1.16	1.84	2.74	0.95	5.53	4.58	5.82	.....		
347	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0	.....	60809	" "
	As found. ....	1.61	1.95	4.18	3.46	1.76	9.40	7.64	2.45	.....		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF EASTERN TOWNSHIPS—								
1914.								
Mar. 11	Sure Crop Phosphate.	60810	B. LeBrun, Milton.	3 jars	....	Bowker Fert. Co., Boston.	....	
" 11	Potash Bone....	60811	" " "	3 "	....	" " "	....	
" 11	Thomas Phosphate.	60812	P. T. Legare, Ltd., Waterloo, P.Q.	3 "	....	.....	P.T. Legare, Ltd., Quebec.	Registered No. cannot be found. Stored by B. Murray.
" 12	Lowell's sterling phosphate.	60813	W. H. Boright, Mansonville.	3 "	....	Lowell Fert. Co., Windsor, N.S.	.....	
" 12	Farmer's Choice	60814	E. Rogers, West Shefford.	3 "	....	Buffalo Fert. Works.	.....	
" 12	Eclipse phosphate for all crops.	60815	" "	3 "	....	The Am. Agr. Chem. Co.	.....	
" 13	Fish Guano ...	60816	F. W. Wallace, Magog.	3 "	....	Buffalo Fert. Works.	.....	
" 16	Bradley's alkaline bone with potash.	60817	L. J. Favreau, St. Edwidge Compton.	3 "	...	The Am. Agr. Chem. Co.	.....	
" 16	Bradley's Eclipse phosphate for all crops.	60818	" "			"	.....	
" 16	Thomas phosphates.	60819	P. J. Paquin, St. Edwidge Compton.	3 "	....	Leeds Phosphate Works.	.....	Registered No. cannot be found.
" 16	Ideal wheat and corn.	60820	W. L. Cleveland, Barnston.	3 "	....	Buffalo Fert. Works.	.....	
" 16	Bowker's potato and vegetable fertilizer.	60821	" "	3 "	....	Bowker Fert. Co.	.....	
" 17	Complete fertilizer.	60822	P. T. Legare, Ltd., Sherbrooke.	3 "	....	Michigan Carbon Works.	.....	
" 18	High-grade acid phosphate.	60823	G. Parmerleau, Valley Junct.	3 "	....	Nitrate Agencies, New York	.....	No reg. number on bags. Guaranteed analysis 14% P <sub>2</sub> O <sub>5</sub>
" 18	Fruit and vine fertilizer.	60824	G. Doyon, Beauceville.	3 "	....	Michigan Carbon Works.	.....	
" 23	Thomas phosphate.	60825	Cote & Freres, St. Cyrille de Wendover.	3 "	....		.....	Cannot read stamping on bags. No tags.
" 23	Northwestern Reliable Fertilizer.	60826	" "	3 "	....		E. Julien, Quebec.	
April 15	Eclipse for all crops.	60827	A. McLean & Riddle Bros., Danville.	3 "	...	.....	The Am. Agr. Chem. Co.	

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis. of Sample.	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total : including that of Nitric Acid or Ammonia if present.  Total : Calculated as Ammonia.	Phosphoric Acid per cent.					Total Available.		
			Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.			

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
772	As guaranteed	0.82	1.0	7.0	2.0	1.0	10.0	9.0	2.0	...	60810	Meets guarantee.
	As found.....	2.59	3.14	7.23	2.33	1.42	10.98	9.56	2.16	...		
404	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	2.0	...	60811	" "
	As found.....	0.98	1.38	7.10	2.42	1.36	10.88	9.52	2.11	...		
	As found. ....	.....	.....	.....	14.30	.....	15.20	.....	.....	.....	60812	No registration number on package. Should be 591, and meets guarantee.
877	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	4.0	.....	60813	Meets guarantee
	As found.....	0.99	1.21	6.05	2.50	0.93	9.48	8.55	3.73	.....		
639	As guaranteed	0.80	1.00	6.0	2.0	1.0	9.0	8.0	5.0	.....	60814	"
	As found.....	1.09	1.33	5.33	2.93	1.59	9.85	8.26	4.89	.....		
4	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0	.....	60815	"
	As found.....	1.53	1.85	3.65	6.23	1.62	11.50	9.88	3.42	.....		
637	As guaranteed	0.80	1.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	60816	"
	As found.....	1.22	1.48	7.38	2.0	2.12	11.50	9.38	2.22	.....		
23	As guaranteed	.....	.....	9.0	2.0	1.0	12.0	11.0	2.0	.....	60817	"
	As found.....	.....	.....	8.25	2.39	1.14	11.78	10.64	1.78	.....		
4	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0	.....	60818	"
	As found.....	1.75	2.12	3.40	5.11	1.34	9.85	8.51	2.99	.....		
(233	As guaranteed	.....	.....	.....	14.40	.....	18.0	.....	.....	80.0	60819	"
	As found.....	.....	.....	.....	15.05	.....	18.10	.....	.....	91.5		
641	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	60820	"
	As found.....	2.73	3.32	5.80	3.78	2.00	11.58	9.58	4.69	.....		
550	As guaranteed	2.47	3.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	60821	"
	As found.....	3.89	4.93	7.60	1.59	1.21	10.40	9.19	4.44	.....		
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	60822	"
	As found.....	2.66	3.23	2.83	5.55	2.00	10.28	8.38	3.63	.....		
(256	As guaranteed	.....	.....	.....	.....	.....	.....	14.0	.....	.....	60823	"
	As found.....	1.12	1.36	.....	13.47	3.11	16.58	13.47	.....	.....		
212	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	60824	"
	As found.....	1.97	2.40	2.43	5.0	2.22	9.65	7.43	10.18	.....		
....	As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	60825	Registered number obliterated.
	As found.....	.....	.....	.....	14.75	.....	16.45	.....	.....	.....		
880	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	6.0	.....	60826	Meets guarantee.
	As found....	1.40	1.70	1.58	2.69	1.06	5.33	4.27	6.22	.....		
4	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0	.....	60827	"
	As found.....	2.10	2.55	3.85	4.40	1.45	9.70	8.25	2.51	.....		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cost.	Manufacturer.	Furnisher.	
DISTRICT OF EASTERN TOWNSHIPS—								
1914.								
April 15	Sure Crop Phosphate.	60828	Geo. McCracken, Danville.	3 jars	....	Bowker Fert. Co.	.....	.....
"	15 6% potato. ....	60829	"	3 "	....	"	.....	.....
"	15 Victor complete fertilizer.	60830	"	3 "	....	Cap. Chem. & Fert. Co.	.....	.....
"	15 6% potato.....	60831	E. Parenteau, Asbestos.	3 "	....	Bowker Fert. Wks.	.....	.....
"	15 Sure Crop Phosphate.	60832	"	3 "	....	"	.....	.....
"	15 Potash bone....	60833	"	3 "	....	"	.....	.....
"	15 Corn phosphate.	60834	Wm. Taylor, Richmond, P.Q.	3 "	....	"	.....	.....
"	15 Sure Crop Phosphate.	60835	"	3 "	....	"	.....	.....
"	15 6% potato.....	60836	"	3 "	....	"	.....	.....
"	15 Farmers' choice.	60837	"	3 "	....	Buffalo Fert. Co.	.....	.....
"	16 Potato and vegetable phosphate	60838	J. A. Lavoie, Plessisville.	3 "	....	Bowker Fert. Co.	.....	.....
"	16 Thomas phosphate powder.	60839	"	3 "	....	The Lesage Pack. & Fert. Co. Ltd.	.....	(Caledonia).
"	16 Royal Canadian.	60840	L. E. Thibaud, Plessisville.	3 "	....	Cap. Chem. & Fert. Co.	.....	.....
"	16 Garden and vegetable.	60841	N. Nolin, Stanfold.	3 "	....	Michigan Carbon Works.	.....	.....
"	16 Complete fertilizer.	60842	"	3 "	....	"	.....	.....
"	16 Dissolved bone..	60843	N. Rheau, Stanfold.	3 "	....	"	.....	.....
"	17 Superphosphate with Potash.	60844	T. Meahan, Arthabaska.	3 "	....	Bowker Fert. Co.	.....	.....
"	17 Potash Bone....	60845	"	"	....	"	.....	.....
"	21 Complete Fertilizer.	60846	P. T. Legare, Ltd., St. Evariste.	"	....	Cap. Chem. and Fert. Co.	.....	.....
"	21 Monarch.....	60847	J. Faucher, St. Evariste.	"	....	Geo. Tanguay, Ltd., Que.	.....	.....
"	21 Union.....	60848	"	"	....	"	.....	.....
"	21 Jupiter.....	60849	"	"	....	"	.....	.....

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total: including that of Nitric Acid or Ammonia if present.	Total : Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available					

Continued.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
773	As guaranteed	0.82	1.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	60828	Meets guarantee
	As found....	2.71	3.30	4.23	4.98	1.61	10.90	9.21	2.34	.....		
96	As guaranteed	0.82	1.00	4.0	2.0	1.0	7.0	6.0	6.0	.....	60829	"
	As found....	1.12	1.36	3.45	6.07	1.01	10.53	9.52	5.72	.....		
83	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	3.0	.....	60830	"
	As found....	2.05	2.60	.....	.....	.....	10.0	.....	3.49	.....		
405	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	60831	"
	As found....	1.05	1.28	5.45	2.23	1.42	9.10	7.68	6.57	.....		
772	As guaranteed	0.82	1.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	60832	"
	As found....	1.12	1.36	7.23	2.32	1.18	10.73	9.55	2.81	.....		
404	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	2.0	.....	60833	"
	As found....	1.66	2.02	2.75	4.33	1.55	8.63	7.08	2.25	.....		
409	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	60834	"
	As found....	1.68	1.98	5.58	2.63	1.32	9.53	8.21	2.43	.....		
72	As guaranteed	0.82	1.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	60835	"
	As found....	2.00	2.43	6.73	4.30	1.27	11.30	10.03	2.35	.....		
405	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	60836	"
	As found....	1.15	1.39	5.35	1.98	1.30	8.63	7.33	5.95	.....		
55	As guaranteed	.....	1.0	.....	.....	.....	8.0	5.0	.....	.....	60837	"
	As found....	1.27	1.55	5.90	3.06	1.54	10.50	8.96	5.56	.....		
50	As guaranteed	2.47	3.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	60838	"
	As found....	3.08	3.74	7.30	2.22	0.83	10.35	9.52	4.28	.....		
32	As guaranteed	.....	.....	.....	14.40	3.60	18.0	.....	.....	.....	60839	Nearly meets guarantee.
	As found....	.....	.....	.....	15.20	.....	16.95	.....	.....	.....		
84	As guaranteed	.....	4.0	.....	.....	.....	9.0	.....	5.0	.....	60840	Meets guarantee.
	As found....	3.92	4.76	.....	.....	.....	10.65	.....	5.46	.....		
210	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	6.0	.....	60841	1% low in potash. Mr. claims should be Reg. No. 206. Doubtful identification.
	As found....	2.03	2.46	2.78	5.60	1.47	9.85	8.38	4.81	.....		
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	60842	Meets guarantee.
	As found....	2.59	3.15	2.23	5.97	1.85	10.05	8.20	4.28	.....		
202	As guaranteed	.....	.....	10.0	2.0	1.0	13.0	12.0	.....	.....	60843	"
	As found....	.....	.....	7.45	5.12	1.33	13.90	12.57	.....	.....		
99	As guaranteed	.....	.....	6.0	4.0	1.0	11.0	10.0	2.0	.....	60844	"
	As found....	.....	.....	8.45	2.33	0.90	11.68	10.78	2.85	.....		
98	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	2.0	.....	60845	"
	As found....	1.09	1.33	2.91	4.30	1.12	8.33	7.21	2.55	.....		
929	As guaranteed	.....	2.0	.....	.....	.....	8.0	.....	4.0	.....	60846	"
	As found....	1.96	2.38	.....	6.92	3.46	10.38	6.92	3.55	.....		
850	As guaranteed	.....	2.0	.....	.....	.....	9.0	8.0	.....	.....	60847	"
	As found....	1.98	2.41	.....	9.10	0.75	9.85	9.10	7.51	.....		
945	As guaranteed	2.47	3.0	.....	8.0	.....	8.0	3.5	.....	.....	60848	"
	As found....	1.26	1.53	.....	12.06	1.02	15.08	12.06	5.21	.....		
948	As guaranteed	2.06	2.50	.....	8.0	.....	8.0	5.0	.....	.....	60849	"
	As found....	1.81	2.19	.....	11.95	1.08	13.03	11.95	9.08	.....		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF EASTERN TOWNSHIPS—

1914.								
April 21	Royal.....	60850	J. Faucher, St. Evariste.	3 jars.	....	Geo. Tanguay, Ltd., Que.		
" 21	Acid Phosphate.	60851	A. Philippore, St. Evariste.	"	....	Nitrate Agencies New York.		
" 21	Nitrate of Soda..	60852	" "	"	....	" "		
" 21	Nitrate of Potash	60853	" "	"	....	" "		
" 22	Super-phosphate of Lime.	60854	T. Philippore, Ditchfield.	"	....	The A. m. Agr. Chem. Co.		
" 22	Special Potato Fertilizer.	60855	Lowell Fert. Co., Lake Megantic	"	....	Lowell Fert. Co. Windsor, N.S.		
" 22	Celtic.....	60856	A. Blais, Spalding.	"	....	Geo. Tanguay, Ltd., Que.		Stored by W. Lemay
" 22	Nestor.....	60857	" "	"	....	" "		
" 22	Eclipse Phosphate for all Crops.	60858	J. D. McDonald, Lake Megantic	"	....	The A. m. Agr. Chem. Co.		
" 23	Sugar Beet Grower.	60859	A. H. Tiffin, Stanstead.	"	....	Buffalo Fert. Works.		
" 23	High Grade Manure.	60860	"	"	....	Buffalo Fert. Works.		
" 23	Extra Phosphate and Potash.	60861	"	"	....	"		
" 23	Celery and Potato Special.	60862	"	"	....	"		
" 23	Muriate of Potash.	60863	"	"	....	"		No tags showing reg. No. Agents says reg. No. is 649.
" 23	Nitrate of Soda.	60864	"	"	....	"		No tags showing reg. No. Agents says reg. No. is 651.
" 23	Four, Two and Sixty.	60865	Fred. Young, Stanstead.	"	....	Dom. Fert. Co., Ltd., St. Stephen, N.B.		No reg. No. on package.
" 23	Two, Nine and Five.	60866	"	"	....	"		
" 23	One, Eight and Five.	60867	"	"	....	"		
" 23	Three-Six-Ten..	60868	"	"	....	"		



## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total, including that of Nitric Acid or Ammonia if present	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Continued.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
949	As guaranteed	2.47	3.00	.....	8.0	.....	.....	8.0	8.0	.....	60850	Meets guarantee
	As found. ....	2.52	3.06	.....	11.17	1.36	12.53	11.17	8.63	.....		
256	As guaranteed	.....	.....	.....	14.18	2.20	16.38	14.18	.....	.....	60851	"
	As found. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
255	As guaranteed	15.0	18.3	.....	.....	.....	.....	.....	.....	.....	60852	"
	As found. ....	15.96	19.38	.....	.....	.....	.....	.....	.....	.....		
966	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.0	.....	60853	"
	As found. ....	.....	.....	.....	.....	.....	.....	.....	55.05	.....		
2	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5	.....	60854	"
	As found. ....	2.39	4.11	6.88	2.96	0.87	10.71	9.84	1.97	.....		
796	As guaranteed	1.64	2.0	4.0	4.0	1.0	9.0	8.0	10.0	.....	60855	"
	As found. ....	2.38	2.89	4.25	5.29	0.64	10.18	9.54	10.37	.....		
953	As guaranteed	.....	.....	.....	10.0	.....	.....	10.0	5.0	.....	60856	"
	As found. ....	.....	.....	.....	9.90	0.95	10.85	9.90	5.90	.....		
952	As guaranteed	.....	2.0	.....	.....	.....	.....	8.0	3.0	.....	60857	"
	As found. ....	1.98	2.41	.....	9.18	1.00	10.18	9.18	3.59	.....		
4	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0	.....	60858	"
	As found. ....	1.64	2.00	3.75	4.53	1.30	9.58	8.28	1.66	.....		
640	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	60859	"
	As found. ....	1.72	2.09	3.88	4.59	1.63	10.10	8.47	4.13	.....		
647	As guaranteed	3.30	4.0	5.0	2.0	1.0	8.0	7.0	10.0	.....	60860	Two p.c. low in potash. Manufacturers claim a mistake in identification.
	As found. ....	3.16	3.84	4.43	4.50	2.17	11.10	8.93	7.45	.....		
636	As guaranteed	.....	.....	8.0	2.0	1.0	11.0	10.0	8.0	.....	60861	Meets guarantee.
	As found. ....	.....	.....	7.23	3.15	2.15	12.53	10.38	7.61	.....		
643	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	60862	"
	As found. ....	1.85	2.24	5.38	3.04	1.53	9.95	8.42	9.52	.....		
649	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.0	.....	60863	"
	As found. ....	.....	.....	.....	.....	.....	.....	.....	51.32	.....		
651	As guaranteed	15.0	18.30	.....	.....	.....	.....	.....	.....	.....	60864	"
	As found. ....	15.98	19.40	.....	.....	.....	.....	.....	.....	.....		
978	As guaranteed	.....	.....	2.0	2.0	1.0	5.0	4.0	2.0	.....	60865	"
	As found. ....	.....	.....	0.65	3.77	1.11	5.53	4.42	2.30	.....		
491	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	60866	"
	As found. ....	2.10	2.55	2.75	5.45	1.48	9.68	8.20	3.93	.....		
492	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	60867	"
	As found. ....	1.02	1.24	4.75	3.72	0.88	9.35	8.47	5.25	.....		
488	As guaranteed	2.40	3.0	4.0	2.0	1.0	7.0	6.0	10.0	.....	60868	"
	As found. ....	2.87	3.48	2.93	4.05	0.82	7.80	6.98	10.18	.....		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF EASTERN TOWNSHIPS—

1914.								
Apr. 24	Potato Manure..	60869	Bradley's Fert. Co., Windsor Mills.	3 jars	....	Bradley's Fert. Co., New York.	.....	Stored at Mr. A. Provencher's.
" 24	Special Potato Fertilizer.	60870	Robitaille & Frere, Windsor Mills.	"	....	Burlington Co., Rendering Co., Burlington, Vt.	.....	.....

## DISTRICT OF MONTREAL—

Mar. 6	4-7-10 Special ..	62305	Montreal Abattoirs, Ltd., Montreal.	3 jars	....	Vendors.....	.....	.....
" 6	5-7-10 Special ..	62306	"	"	....	"	.....	.....
" 6	Gilt Edge Potato and Tobacco Manure.	62307	"	"	....	"	.....	.....
" 13	Early Truck and Vegetable Grower.	62308	"	"	....	"	.....	.....
" 13	Corn Cereal Special.	62309	Montreal Abattoirs, Ltd., Montreal.	"	....	Vendors..	.....	.....
" 13	Montreal Special Potato Manure	62310	"	"	....	"	.....	.....
April 27	Crocker's New General Crop.	62311	Le Pailleur, Freres, Lachine.	"	....	Chemical Agr. Co., Buffalo.	.....	.....
May 1	Sure Growth....	62312	Wm. Ewing, 146 McGill St., Montreal.	"	....	W. A. Freeman, Hamilton.	.....	.....
" 1	Celery and Early Vegetable Manure.	62313	"	"	....	"	.....	.....
" 1	Lawn Fertilizer.	62314	"	"	....	"	.....	.....
" 1	Bone Potash....	62315	"	"	....	"	.....	.....
" 4	Vegetable.....	62316	Hector L. Dery, 21 Notre Dame St., East, Montreal.	"	....	F. Canac, Marquis, Quebec.	.....	.....
" 4	Lawn.....	62317	"	"	....		.....	.....

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid, per cent.								
		Total: including that of Nitric Acid or Am- monia if present.	Total: calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Concluded.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
150	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	5.0	.....	60869	Meets guarantee.
	As found.....	3.22	3.91	2.62	4.61	1.02	8.25	7.23	5.12	.....		
832	As guaranteed	2.46	3.0	2.52	2.48	3.0	8.0	5.0	6.0	.....	60870	"
	As found.....	2.70	3.28	3.51	3.57	2.25	9.33	7.08	6.16	.....		

D. J. KEARNEY, INSPECTOR.

856	As guaranteed	.....	4.0	.....	.....	.....	7.0	10.0	.....	62305	One p. c. deficiency in potash. Manufacturers claim sample taken before mixing completed.	
	As found.....	3.50	4.25	.....	9.70	3.80	13.50	9.70	8.49	.....		
927	As guaranteed	4.12	5.0	.....	.....	.....	10.50	7.0	10.0	.....	62306	Meets guarantee
	As found.....	4.16	5.04	.....	9.04	3.66	12.70	9.04	9.46	.....		
555	As guaranteed	.....	3.0	.....	.....	.....	7.0	10.0	.....	62307	"	
	As found.....	3.10	3.77	.....	1.47	1.47	10.03	8.56	11.01	.....		
553	As guaranteed	.....	4.0	.....	.....	.....	.....	6.0	8.0	.....	62308	"
	As found.....	3.29	4.0	.....	9.21	2.84	12.05	9.21	19.37	.....		
552	As guaranteed	.....	2.0	.....	.....	.....	8.0	2.0	.....	62309	"	
	As found.....	2.45	2.97	.....	10.92	4.01	14.93	10.92	2.53	.....		
556	As guaranteed	.....	1.0	.....	.....	.....	8.0	5.0	.....	62310	"	
	As found.....	1.86	2.26	.....	9.79	4.01	13.80	9.79	5.21	.....		
301	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	1.0	.....	62311	"
	As found.....	1.16	1.41	1.60	4.86	1.94	8.40	6.46	0.87	.....		
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	.....	62312	"
	As found.....	3.40	4.12	3.35	5.69	1.91	10.98	9.04	4.69	.....		
148	As guaranteed	4.12	5.0	5.5	3.5	0.25	9.25	9.0	5.0	.....	62313	"
	As found.....	4.20	5.10	7.30	3.35	0.90	11.55	10.65	5.50	.....		
157	As guaranteed	2.47	3.0	5.5	3.5	0.25	9.25	9.0	4.0	.....	62314	"
	As found.....	2.52	3.06	11.58	1.26	1.11	13.95	12.84	5.02	.....		
147	As guaranteed	1.65	2.0	5.5	3.5	0.25	9.25	9.0	6.0	.....	62315	"
	As found.....	2.69	3.26	4.05	7.41	0.97	12.43	11.46	5.32	.....		
912	As guaranteed	0.82	1.0	3.25	4.0	1.0	8.25	7.25	6.0	.....	62316	"
	As found.....	2.00	2.43	2.40	6.88	4.56	13.78	9.22	5.85	.....		
911	As guaranteed	0.82	1.0	6.0	7.0	1.0	14.0	13.0	2.0	.....	62317	"
	As found.....	1.30	1.58	4.20	7.24	3.56	15.0	11.41	2.58	.....		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF MONTREAL—

1914.								
May	5 R. & F's General Crop.	62318	Dupuy & Ferguson, Jacques Cartier Square, Montreal.	3 jars.		Geo. Tanguay, Quebec.		
"	6 Ground Bone...	62319	Lesage Pack. and Fert. Co., 73½ St. Paul St., Montreal.	"		Vendors.		
"	6 Royal Potato Manure.	62320	"	"		"		
"	6 Corn and Vegetable.	62321	"	"		"		
"	6 Complete Fertilizer.	62322	"	"		"		
"	6 Quebec Special.	62323	"	"		"		
"	6 Grain and Wheat	62324	"	"		"		

## DISTRICT OF VALLEYFIELD—

April	20 Corn Phosphate.	62741	J. McCause, Hemmingford.	3 lbs.	10	Bowker Fert.Co.		
"	20 Ten per cent Manure.	62742	"	3 "	10	"		Registered No. not shown.
"	20 Six per cent Potato.	62743	"	3 "	10	"		
"	20 Potato and vegetable.	62744	"	3 "	10	"		
"	20 Fertilizer.	62745	J. P. Brogan, Hemmingford.	3 "		Montreal Abattoirs, Ltd.		No title on bags.
"	20 Fish and Guano.	62746	R. W. Blair, Hemmingford.	3 "		Buffalo Fert. Co.		
"	20 Farmers' Choice.	62747	"	3 "		"		
"	20 Superphosphate and Potash.	62748	"	3 "		"		
"	23 Monarch.	62749	D. M. McPherson, Lancaster, Ont.	3 "		Cap. Chem. and Fert. Co.		
"	23 Royal Canadian.	62750	"	3 "		"		
"	25 Farmers' Choice.	62751	Thos. Cogland, Herdman, P.Q.	3 "		International Agr. Corporation.		
"	25 Wheat Special.	62752	"	3 "		"		
"	25 Dissolved Phosphate.	62753	"	3 "		"		

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total : including that of Nitric Acid or Ammonia if present.	Total : Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Continued.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
988	As guaranteed	0.85	1.0	5.5	2.5	.....	.....	8.0	4.0	.....	62318	Meets guarantee.
	As found.....	1.04	1.26	6.95	0.79	0.54	8.28	7.74	4.38	.....		
330	As guaranteed	2.47	3.0	.....	.....	.....	22.58	.....	.....	.....	62319	"
	As found....	3.18	.....	.....	.....	.....	24.53	.....	.....	.....		
449	As guaranteed	2.47	3.0	.....	5.0	1.0	6.0	5.0	10.00	.....	62320	"
	As found.....	2.52	3.06	.....	5.10	2.30	7.40	5.10	12.53	.....		
447	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	5.0	.....	62321	"
	As found.....	1.78	2.16	.....	6.89	1.04	7.93	6.89	7.72	.....		
163	As guaranteed	1.0	1.25	.....	7.0	1.0	8.0	.....	1.0	.....	62322	"
	As found.....	1.40	1.70	.....	8.11	1.42	9.53	8.11	4.63	.....		
331	As guaranteed	1.0	1.25	.....	5.0	1.0	6.0	.....	3.0	.....	62323	"
	As found.....	1.26	1.53	.....	6.49	1.41	7.90	6.49	4.82	.....		
446	As guaranteed	1.65	2.0	.....	5.0	1.0	6.0	5.0	2.0	.....	62324	"
	As found....	1.57	1.90	.....	6.58	0.97	7.55	6.58	2.28	.....		

J. J. COSTIGAN, ACTING INSPECTOR.

409	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	62741	Meets guarantee
	As found.....	1.93	2.34	5.75	2.69	1.49	9.93	8.44	2.16	.....		
(406)	As guaranteed	0.82	1.0	3.0	2.0	1.0	6.0	5.0	10.0	.....	62742	"
	As found.....	0.99	1.20	2.75	3.18	1.65	7.58	5.93	10.08	.....		
405	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	.....	62743	"
	As found.....	1.05	1.28	3.85	2.62	1.33	7.80	6.47	6.99	.....		
550	As guaranteed	2.47	3.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	62744	"
	As found.....	2.94	3.57	4.75	3.78	1.62	10.15	8.53	4.63	.....		
552	As guaranteed	.....	2.0	.....	.....	.....	.....	8.0	2.0	.....	62745	"
	As found.....	2.10	2.55	.....	10.88	4.40	15.28	10.88	4.01	.....		
637	As guaranteed	0.80	1.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	62746	"
	As found.....	3.12	3.79	3.90	3.86	3.37	11.13	7.76	2.65	.....		
639	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	62747	"
	As found.....	1.19	1.45	4.00	2.42	3.08	9.50	6.42	4.86	.....		
636	As guaranteed	.....	.....	8.0	2.0	1.0	11.0	10.0	8.0	.....	62748	"
	As found.....	.....	.....	6.58	2.45	1.87	10.90	9.03	7.81	.....		
857	As guaranteed	.....	4.0	.....	.....	.....	8.0	.....	8.0	.....	62749	"
	As found....	4.72	5.92	.....	.....	.....	9.88	.....	7.86	.....		
84	As guaranteed	.....	4.0	.....	.....	.....	9.0	.....	5.0	.....	62750	"
	As found.....	4.66	5.66	.....	.....	.....	11.23	.....	5.16	.....		
639	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	62751	"
	As found....	1.75	2.13	5.50	2.53	2.22	10.25	8.03	5.71	.....		
638	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5	.....	62752	"
	As found.....	2.21	2.68	1.80	5.48	2.42	9.70	7.28	1.53	.....		
634	As guaranteed	.....	.....	12.0	2.0	1.0	15.0	14.0	.....	.....	62753	"
	As found.....	.....	.....	10.05	2.24	3.54	15.83	12.29	.....	.....		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF VALLEYFIELD—

1914.								
April 25	Gold Seal Potato and Cabbage Special.	62754	V. D. Leggatt, Hardman, P.Q.	3 lbs.	....	F. S. Royster	Guano Co.	.....
" 25	Special Celery and Onion Guano.	62755	"	3 "	....	"	"	.....
" 25	Special Frit and Crop Grower.	62756	"	3 "	....	"	"	.....

## DISTRICT OF OTTAWA—

April 16	Victor.....	63342	Cap. Chem. & Fert., Co. Buckingham.	2 lbs.	....	Vendors.....		.....
" 16	Reliance.....	63343	"	2 "	....	"		.....
" 16	Royal Canadian.	63344	"	2 "	....	"		.....
" 16	Eureka Tobacco.	63345	"	2 "	....	"		.....
" 16	Potato Special..	63346	"	2 "	....	"		.....
" 16	Corn Special....	63347	"	2 "	....	"		.....
" 16	Capelton.....	63348	"	2 "	....	"		.....
" 16	Monarch.....	63349	"	2 "	....	"		.....
" 16	Legares Superphosphate.	63350	"	2 "	....	"		.....
" 16	No 1.....	63351	"	2 "	....	"		.....
" 16	Legares Complete Fertilizer.	63352	"	2 "	....	"		.....
" 16	Legares Special Garden Fertilizer.	63353	"	2 "	....	"		.....
" 17	Reads Standard Superphosphate.	63359	A. E. Cameron Estate, Brockville.	2 "	....	Am. Agr. Chem. Co., Cartaret, N.J.		.....
" 17	Reads Practical Potato Special.	63360	"	2 "	....	"		.....
" 17	Reads Corn Wheat & Rye.	63361	"	2 "	....	"		.....
" 17	Fish Guano.....	63393	H. Brown & Sons, Brockville.	2 "	....	Int. Agr. Corporation, B. Fert. Wks., Buffalo, N.Y.		.....

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

## Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
711	As guaranteed	1.65	2.0	6.0	2.0	0.50	8.50	8.0	10.0	...	62754	Meets guarantee.
	As found....	2.49	2.87	6.25	2.81	1.29	10.35	9.06	10.58	.....		
710	As guaranteed	3.29	4.0	6.0	2.0	0.50	8.50	8.0	12.0	.....	62755	One p. c. deficiency in potash.
	As found....	3.64	4.42	6.55	2.86	0.74	10.15	9.41	10.80	.....		
712	As guaranteed	.....	.....	8.0	2.0	0.50	10.50	10.0	8.0	.....	62756	Meets guarantee.
	As found....	.....	.....	6.48	4.08	1.54	12.10	10.56	7.78	.....		

## J. A. RICKEY, INSPECTOR.

83	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	3.0	.....	63342	Meets guarantee.
	As found....	2.58	3.12	.....	.....	.....	9.93	.....	3.01	.....		
86	As guaranteed	.....	2.0	.....	.....	.....	6.0	2.0	.....	.....	63343	"
	As found....	1.65	2.00	.....	9.10	3.95	13.05	9.10	1.97	.....		
84	As guaranteed	.....	4.0	.....	.....	.....	9.0	.....	5.0	.....	63344	"
	As found....	3.71	4.50	.....	.....	.....	10.13	.....	5.14	.....		
85	As guaranteed	.....	3.0	.....	.....	.....	5.0	4.0	.....	.....	63345	One p.c. deficiency in potash.
	As found....	2.90	3.52	.....	6.46	3.32	9.78	6.46	2.90	.....		
336	As guaranteed	.....	2.0	.....	.....	.....	6.0	8.0	.....	.....	63346	Meets guarantee.
	As found....	2.55	3.10	0.40	5.75	2.43	8.58	6.15	8.80	.....		
82	As guaranteed	.....	1.0	.....	.....	.....	7.0	.....	3.0	.....	63347	"
	As found....	1.12	1.26	.....	.....	.....	9.40	.....	3.22	.....		
337	As guaranteed	.....	7.0	.....	.....	.....	7.0	.....	.....	.....	63348	"
	As found....	.....	0.68	7.75	5.12	13.55	8.43	.....	.....	.....		
857	As guaranteed	.....	4.0	.....	.....	.....	8.0	.....	8.0	.....	63349	"
	As found....	5.01	6.08	.....	.....	.....	9.65	.....	8.59	.....		
930	As guaranteed	.....	.....	.....	.....	.....	12.0	.....	.....	.....	63350	One and half p.c. deficiency in available phosphoric acid.
	As found....	.....	.....	10.35	5.00	15.35	10.35	.....	.....	.....		
81	As guaranteed	.....	.....	.....	.....	.....	10.0	.....	.....	.....	63351	Meets guarantee.
	As found....	.....	.....	10.43	2.75	13.18	10.43	.....	.....	.....		
929	As guaranteed	.....	2.0	.....	.....	.....	8.0	.....	4.0	.....	63352	"
	As found....	1.88	2.28	.....	7.00	2.85	9.85	7.00	3.69	.....		
990	As guaranteed	.....	3.0	6.0	2.0	.....	8.0	8.0	6.0	.....	63353	"
	As found....	2.59	3.14	0.25	7.04	2.36	9.65	7.29	7.07	.....		
383	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	63359	"
	As found....	1.11	1.34	4.60	3.73	1.12	10.45	9.33	4.21	.....		
382	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	8.0	.....	63360	"
	As found....	1.06	1.29	1.65	3.60	0.90	6.15	5.25	7.90	.....		
234	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	63361	"
	As found....	2.07	2.53	6.03	3.08	0.99	10.10	9.11	3.78	.....		
637	As guaranteed	0.80	1.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	63363	"
	As found....	1.32	1.60	5.43	3.45	3.25	12.13	8.88	2.20	.....		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF OTTAWA—

1914.								
April 17	Farmers' Choice.	63364	H. Brown & Sons Brockville.	2 lbs.	...	Int. Agr. Corporation Buffalo Fert. Works, Buffalo, N.Y.		
" 17	Bone Meal....	63365	" ..	2 "	...	" ..		
" 17	Wheat Special..	63366	" ..	2 "	...	" ..		
" 17	Sugar Beet Grower.	63367	" ..	2 "	...	" ..		
" 17	Garden Truck..	63368	" ..	2 "	...	" ..		
" 18	Read's Potato Manure.	63371	W. G. Wood, Smiths Falls.	2 "	...	Am. Agr. Chem. Co., Cartaret, N.J.		
" 18	Read's Farmers' Reliable.	63374	" ..	3 "	...	" ..		
" 24	Potato Manure.	63375	K. McDonald & Sons, Ottawa.	1 "	...	The W. A. Freeman Co., Ltd., Hamilton.		
" 24	Sure Growth Manure.	63376	" ..	2 "	...	" ..		
" 24	Bone and Potash	63377	" ..	2 "	...	" ..		
" 24	Clay's Fertilizer.	63378	" ..	3 tins.	...	Clay & Son, Temple Mill Lane, London, Eng.		Analysis on pkgs, but no reg.No.
" 24	Freeman's Flower Fertilizer.	63379	" ..	3 pkgs	...	The W. A. Freeman Co., Ltd., Hamilton.		" ..
" 24	Pure Bone Meal.	63380	Graham Bros., Ottawa.	2 lbs.	...	" ..		
" 24	Tankage....	63381	" ..	2 "	...	" ..		
May 16	Standard Fertilizer.	63382	The Standard Fert. & Chem. Co., Smiths Falls.	2 "	...	Vendors.....		
" 16	Corn and grass..	63383	" ..	2 "	...	" ..		
" 16	Phosphate Plaster.	63384	" ..	2 "	...	" ..		
" 16	Watch-Em-Grow	63385	" ..	2 "	...	" ..		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Remarks and Opinion of the Chief Analyst.	
		Nitrogen, p.c.		Phosphoric Acid per cent.						
		Total : including that of Nitric Acid or Ammonia if present.	Total : Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.		

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
639	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	....	63364	Meets guaranty
	As found.....	0.88	1.08	5.20	2.88	2.07	10.15	8.08	4.65	....		
648	As guaranteed	2.43	3.0	....	....	....	22.0	....	....	....	63365	Four per cent low in phosphoric acid.
	As found.....	2.76	3.35	....	....	....	17.58	....	....	....		
638	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5	....	63366	Meets guaranty.
	As found.....	2.50	3.04	2.80	5.20	2.54	10.63	8.09	2.06	....		
640	As guaranteed	1.6	2.0	6.0	2.0	1.0	9.0	8.0	4.0	....	63367	"
	As found.....	2.04	2.48	2.30	5.40	2.35	10.05	7.70	4.17	....		
646	As guaranteed	3.0	4.0	6.0	2.0	1.0	9.0	8.0	7.0	....	63368	"
	As found.....	4.37	5.20	4.45	4.44	1.76	10.65	8.89	6.72	....		
742	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	10.0	....	63371	"
	As found.....	3.10	3.77	3.85	3.70	1.40	8.95	7.55	9.96	....		
737	As guaranteed	....	....	10.0	2.0	1.0	13.0	12.0	5.0	....	63374	"
	As found.....	....	....	10.78	2.22	1.13	14.13	13.00	5.81	....		
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0	....	63375	"
	As found.....	3.50	4.25	2.03	6.73	2.30	11.03	8.73	5.79	....		
144	As guaranteed	2.89	3.50	5.0	3.0	0.25	8.25	8.0	3.0	....	63376	"
	As found.....	3.15	3.82	2.98	5.71	2.01	10.70	8.69	5.17	....		
147	As guaranteed	1.65	2.0	5.5	3.5	0.25	9.25	9.0	6.0	....	63377	"
	As found.....	3.27	3.98	2.65	6.69	1.56	10.90	9.34	7.59	....		
....	As guaranteed	4.43	....	....	....	....	....	....	0.21	....	63378	No registration number, but meets guaranty
	As found.....	4.68	5.68	....	....	....	9.37	....	0.17	....		
(158)	As guaranteed	2.47	3.0	5.5	2.5	0.25	8.25	8.0	2.0	....	63379	Meets guaranty, no registration number on package.
	As found.....	2.10	2.55	....	....	....	10.03	....	3.94	....		
146	As guaranteed	2.47	3.0	....	20.0	1.0	21.0	20.0	....	....	63380	Meets guaranty.
	As found.....	3.18	3.86	....	12.85	9.63	22.48	12.85	....	....		
150	As guaranteed	4.12	5.0	0.50	12.0	0.50	13.0	12.0	....	....	63381	"
	As found.....	7.70	9.35	0.36	11.79	4.75	16.90	12.15	....	....		
280	As guaranteed	2.0	2.4	8.0	1.0	5.0	14.0	9.0	2.0	....	63382	"
	As found.....	2.08	2.53	9.23	0.0	4.02	13.25	9.23	3.24	....		
1041	As guaranteed	1.65	2.0	6.0	1.0	4.0	11.0	7.0	4.0	....	63383	"
	As found.....	1.96	2.38	8.23	1.17	3.75	13.15	9.40	5.37	....		
283	As guaranteed	....	....	....	....	5.0	5.0	....	....	....	63384	"
	As found.....	....	....	....	2.98	6.27	9.25	2.98	....	....		
282	As guaranteed	3.3	4.0	8.0	1.0	....	....	9.0	7.0	....	63385	"
	As found.....	3.96	4.78	10.75	0.02	0.91	11.68	10.77	6.54	....		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF KINGSTON—

1914.								
April 14	Basic Slag A Quality.	57370	Huffman & Burnett, Belleville.	3 lbs.	10	The Cross Fert. Co., Sydney, N.B.		
" 14	Scottish Potato Manure.	57371	" ..	3 "	10	" ..		
" 15	Special Potash Mixture.	57372	John Gunys, Brighton.	3 "	20	Am. Agr. Chem. Co., Buffalo.		
" 15	Bradley's Complete Manure for Potatoes & Vegetables.	57377	" ..	3 "	20	" ..		

## DISTRICT OF TORONTO—

Mar. 11	Sugar Beet Special.	59946	The Wm. Davies Co., Ltd., W. Toronto.	3 lbs.	15	Vendors .....		
" 11	Soluble Bone and Potash.	59947	" ..	3 "	15	" ..		
" 11	Corn Special....	59948	" ..	3 "	15	" ..		
" 11	Grape and Small Fruit Special.	59949	" ..	3 "	15	" ..		
" 11	Bone Meal and Fine Steamed Bone A1.	59950	" ..	3 "	15	" ..		
" 11	Acid Phosphate No. 1.	59951	" ..	3 "	15	" ..		
" 11	No. 1 Basic Slag A quality.	59952	" ..	3 "	15	The Cross Fert. Co., Ltd., Sydney, N.B.		
" 12	Sure Growth....	59953	" ..	3 "	15	Vendors....		
" 12	Wheat Phosphate.	59954	" ..	3 "	15	" ..		
" 12	General Crop...	59955	" ..	3 "	15	" ..		
" 12	Potato Grower..	59956	" ..	3 "	15	" ..		
" 12	Potato Special..	59957	" ..	3 "	15	" ..		
" 12	Tobacco Grower	59958	" ..	3 "	15	" ..		

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.	Phosphoric Acid per cent.									
			Total : including that of nitric Acid or Ammonia if present	Total : Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.				

## JAS. HOGAN, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
557	As guaranteed	.....	.....	.....	12.80	.....	.....	.....	.....	.....	57370	Meets guarantee
	As found.....	.....	.....	.....	14.60	.....	15.35	.....	.....	.....		
515	As guaranteed	2.47	3.0	7.0	1.0	1.0	9.0	8.0	3.5	.....	57371	"
	As found.....	2.94	3.57	.....	8.92	2.88	11.80	8.92	3.75	.....		
181	As guaranteed	0.82	1.0	7.0	2.0	1.0	10.0	9.0	7.0	.....	57372	"
	As found.....	2.80	3.42	5.30	3.48	1.42	10.2	8.78	6.38	.....		
394	As guaranteed	3.29	4.0	6.0	2.0	1.0	9.0	8.0	7.0	.....	57377	"
	As found. ....	4.02	4.88	5.80	2.63	1.50	9.93	8.43	6.57	.....		

## H. J. DAGER, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
667	As guaranteed	1.64	2.0	.....	.....	.....	11.0	10.0	5.0	.....	59946	Meets guarantee.
	As found.....	1.72	2.09	.....	8.62	1.61	10.23	8.62	6.78	.....		
369	As guaranteed	1.64	2.0	3.0	5.0	2.0	10.0	8.0	5.0	.....	59947	Practically of guaranteed value. Compensated.
	As found.....	2.32	2.82	2.35	5.07	1.03	8.45	7.42	4.86	.....		
669	As guaranteed	1.64	2.0	.....	.....	.....	9.0	8.0	2.0	.....	59948	Meets guarantee.
	As found.....	2.45	2.98	.....	8.06	1.52	9.58	8.06	2.80	.....		
675	As guaranteed	1.64	2.0	.....	.....	.....	9.0	8.0	10.0	.....	59949	"
	As found.....	2.42	2.94	.....	7.89	1.29	9.18	7.89	9.52	.....		
610	As guaranteed	2.47	3.0	.....	.....	.....	23.0	.....	.....	.....	59950	"
	As found.....	2.73	3.32	.....	.....	.....	27.93	.....	.....	.....		
662	As guaranteed	.....	.....	.....	.....	.....	16.0	.....	.....	.....	59951	"
	As found.....	.....	.....	.....	15.83	2.40	18.23	15.83	.....	.....		
557	As guaranteed	.....	.....	.....	12.80	.....	.....	.....	.....	.....	59952	"
	As found.....	.....	.....	.....	13.60	.....	14.90	.....	.....	.....		
674	As guaranteed	2.47	3.0	.....	.....	.....	10.0	9.0	3.0	.....	59953	"
	As found.....	4.42	5.37	.....	7.56	1.90	9.46	7.56	4.02	.....		
666	As guaranteed	1.64	2.0	.....	.....	.....	11.0	10.0	2.0	.....	59954	"
	As found.....	2.61	3.18	.....	9.04	1.71	10.75	9.04	2.62	.....		
249	As guaranteed	2.47	3.0	.....	.....	.....	10.0	8.0	2.0	.....	59955	Deficiency of 2% phosphoric acid. Value compensated.
	As found.....	2.85	3.47	.....	6.21	1.51	7.72	6.21	2.82	.....		
670	As guaranteed	2.47	3.0	.....	.....	.....	7.0	6.0	10.0	.....	59956	Meets guarantee.
	As found.....	2.87	3.48	.....	5.55	0.98	6.53	5.55	9.66	.....		
360	As guaranteed	3.30	4.0	1.0	5.0	2.0	8.0	6.0	8.0	.....	59957	Nearly meets guarantee.
	As found.....	3.78	4.59	None	5.60	0.85	6.45	5.60	8.46	.....		
368	As guaranteed	4.11	5.0	1.0	6.0	2.0	9.0	7.0	6.0	.....	59958	Meets guarantee.
	As found.....	4.69	5.69	0.55	6.19	1.04	7.78	6.74	6.97	.....		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1914.								
Mar. 12	Davies 4-7-10 ...	59959	The Wm. Davies Co., Ltd., West Toronto.	3 lbs.	15	Vendors.....		
" 13	Harab No. 13, FarmersSpecial	59960	The Harris Abattoir Co. Ltd., Toronto.	3 "	15	" .....		
" 13	Harab N. B. Potato Special with 10% potash	59961	"	3 "	15	" .....		
" 13	Harab No. 7 Potash Compound.	59962	"	3 "	15	" .....		
" 13	Harab No. 6 Cereals and Corn	59963	"	3 "	15	" .....		
" 13	Harab No. 1 Potash Special	59964	"	3 "	15	" .....		
" 14	Harab No. 12 Lambton Special.	59965	"	3 "	15	" .....		
" 14	Harab No. 4 Gardeners Special.	59966	"	3 "	15	" .....		
" 14	Harab No. 5 Orchard and Fruit.	59967	"	3 "	15	" .....		
" 14	Harab N. B. Complete Fert. with 10% potash	59968	"	3 "	15	" .....		
" 14	Harab N. B. Potato Grower with 10% Potash.	59969	"	3 "	15	" .....		
" 16	Shur Crop Tobacco Producer.	59970	Gunn's Ltd., West Toronto.	3 "	15	" .....		
" 16	Gunn's Shur Crop Potato & Celery Special.	59972	"	3 "	15	" .....		
" 16	Gunn's Shur Crop Wheat Special.	59973	"	3 "	15	" .....		
" 16	Gunn's Shur Crop General Garden.	59974	"	3 "	15	" .....		
" 16	Gunn's Shur Crop Young Orchard.	59975	"	3 "	15	" .....		
" 17	Gunn's Shur Crop Sugar Beet Special.	59976	"	3 "	15	" .....		
" 17	Gunn's Shur Corn Manure.	59977	"	3 "	15	" .....		
" 17	Gunn's Shur Crop Bean Grower.	59978	"	3 "	15	" .....		

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.						Potash.	Fineness.		
		Total: including that of Nitric Acid or Ammonia if present	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
Continued.													
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
920	As guaranteed	3.29	4.0	.....	7.0	1.0	8.0	7.0	10.0	.....	59959	Meets guarantee.	
	As found.....	4.07	4.94	Trace.	7.07	1.06	8.13	7.07	10.47	.....			
633	As guaranteed	1.0	.....	.....	.....	.....	8.0	.....	5.0	.....	59960	"	
	As found. ....	1.82	2.21	.....	.....	.....	9.73	.....	4.52	.....			
696	As guaranteed	.....	3.0	.....	.....	.....	7.0	6.0	10.0	.....	59961	"	
	As found.....	2.59	3.14	.....	7.59	0.81	8.40	7.59	10.08	.....			
476	As guaranteed	2.0	.....	.....	.....	.....	7.0	.....	8.0	.....	59962		
	As found.....	2.40	2.92	.....	.....	.....	7.88	.....	8.07	.....			
701	As guaranteed	2.0	.....	.....	.....	.....	9.0	.....	3.0	.....	59963	"	
	As found.....	1.96	2.38	.....	.....	.....	10.98	.....	2.34	.....			
471	As guaranteed	3.0	.....	.....	.....	.....	6.0	.....	8.0	.....	59964	2% low in potash.	
	As found.....	4.06	4.93	.....	.....	.....	7.70	.....	5.81	.....			
652	As guaranteed	2.0	.....	.....	.....	.....	8.0	.....	10.0	.....	59965	Meets guarantee.	
	As found.....	2.17	2.64	.....	.....	.....	9.73	.....	9.12	.....			
655	As guaranteed	5.0	.....	.....	.....	.....	6.0	.....	8.0	.....	59966	"	
	As found.....	5.14	6.24	.....	.....	.....	8.43	.....	8.30	.....			
654	As guaranteed	1.0	.....	.....	.....	.....	8.0	.....	8.0	.....	59967	"	
	As found. ....	3.08	3.74	.....	.....	.....	9.95	.....	8.07	.....			
695	As guaranteed	.....	4.0	.....	.....	.....	7.0	6.0	10.0	.....	59968	"	
	As found.....	4.08	4.94	.....	6.82	0.83	7.65	6.82	10.87	.....			
697	As guaranteed	.....	2.0	.....	.....	.....	7.0	6.0	10.0	.....	59969	"	
	As found.....	1.76	2.14	.....	6.71	1.14	7.85	6.71	9.77	.....			
611	As guaranteed	3.0	.....	8.0	.....	.....	.....	8.0	8.0	.....	59970	"	
	As found.....	3.42	.....	4.88	4.80	1.25	10.93	9.68	7.70	.....			
615	As guaranteed	2.0	.....	8.0	.....	.....	.....	8.0	10.0	.....	59972	"	
	As found.....	2.00	.....	6.65	1.90	0.60	9.15	8.55	10.50	.....			
618	As guaranteed	2.0	.....	9.0	.....	.....	.....	9.0	2.0	.....	59973	"	
	As found.....	1.75	.....	7.43	2.46	0.66	16.55	9.89	2.70	.....			
619	As guaranteed	3.0	.....	5.0	.....	.....	.....	5.0	6.0	.....	59974	"	
	As found.....	2.74	.....	3.10	3.20	0.60	6.90	6.30	6.64	.....			
621	As guaranteed	2.0	.....	7.0	.....	.....	.....	7.0	5.0	.....	59975	"	
	As found. ....	1.74	.....	4.14	3.30	0.76	8.20	7.44	5.33	.....			
612	As guaranteed	2.0	.....	6.0	.....	.....	.....	6.0	9.0	.....	59976	"	
	As found.....	1.69	.....	4.64	2.67	0.64	7.95	7.31	9.56	.....			
614	As guaranteed	2.0	.....	9.0	.....	.....	.....	9.0	5.0	.....	59977	"	
	As found. ....	2.03	.....	7.75	2.21	0.69	10.65	9.96	5.35	.....			
616	As guaranteed	2.0	.....	7.0	.....	.....	.....	7.0	8.0	.....	59978	"	
	As found.....	1.69	.....	5.25	1.89	0.46	7.60	7.14	8.70	.....			

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF TORONTO—

1914.								
Mar. 17	Gunn's Shur Early Vegetable.	59979	Gunn's Limited, West Toronto.	3 Lbs.	15	Vendors	.....	.....
" 17	Gunn's Shur Crop Berry Special.	59980	" ..	3 "	15	"	.....	.....
" 18	Davies Blood Meal.	59981	The Wm. Davies Co., Ltd., west, Toronto.	3 "	15	"	.....	.....
" 18	Davies' Orchard Special.	59982	" ..	3 "	15	"	.....	.....
" 18	Davies' General Vegetable and Market Garden.	59983	" ..	3 "	15	"	.....	.....
" 18	Wilson's Special.	59984	" ..	3 "	15	"	.....	.....
" 18	Gunn's Shur Crop Fine Steamed Bone.	59985	Gunn's Ltd., west, Toronto.	3 "	15	"	.....	.....
" 18	Shur Crop Forcing Growth.	59986	" ..	3 "	15	"	.....	.....
" 19	Swift's Special Potato.	59987	Swift Canadian Co., Ltd., West Toronto.	3 "	15	"	.....	.....
" 19	Swift's General Crop Grower.	59988	" ..	3 "	15	"	.....	.....
" 19	Swift's Grain Fertilizer.	59989	" ..	3 "	15	"	.....	.....
" 19	Phosphate and Potash.	59990	" ..	3 "	13	"	.....	.....
" 19	Swift's Superphosphate.	59991	" ..	3 "	15	"	.....	.....
April 1	Harab No. 15, Fall Wheat Special.	59992	The Harris Abattoir Co., Ltd., Toronto	3 "	15	"	.....	.....
" 1	Harab No. 10, Blood and bone	59993	" ..	3 "	15	"	.....	.....
" 1	Harab No. 3, Early Vegetable.	59994	" ..	3 "	15	"	.....	.....
" 1	Harab No. 2, General Garden.	59995	" ..	3 "	15	"	.....	.....
" 1	Harab N. B. Grain Special.	59996	" ..	3 "	15	"	.....	.....
" 1	Harab N. B. Leader.	59997	" ..	3 "	15	"	.....	.....
" 1	Harab No. 14 Tobacco.	59998	" ..	3 "	15	"	.....	.....

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
620	As guaranteed	4.0	.....	6.0	.....	.....	.....	6.0	7.0	.....	59979	Nearly meets guaranteed value.
	As found.....	2.94	.....	3.75	3.15	0.60	7.50	6.90	7.64	.....		
622	As guaranteed	1.0	.....	8.0	.....	.....	.....	8.0	8.0	.....	59980	Meets guarantee.
	As found....	1.40	1.70	6.73	1.09	0.43	8.25	7.82	7.78	.....		
371	As guaranteed	11.51	14.0	.....	.....	.....	.....	.....	.....	.....	59981	" "
	As found.....	12.50	15.18	.....	.....	.....	.....	.....	.....	.....		
671	As guaranteed	1.64	2.0	.....	.....	.....	9.0	8.0	7.0	.....	59982	Potash nearly 1 p.c. too low.
	As found.....	1.76	2.14	.....	7.37	1.35	8.72	7.37	6.04	.....		
362	As guaranteed	4.11	5.0	1.0	6.0	2.0	9.0	7.0	5.0	.....	59983	Meets guarantee.
	As found.....	5.88	.....	trace.	6.46	1.39	7.85	6.46	5.35	.....		
960	As guaranteed	2.05	2.50	.....	.....	1.0	11.0	10.0	10.0	.....	59984	"
	As found. ....	2.45	2.98	4.15	5.03	1.15	10.33	9.18	9.93	.....		
623	As guaranteed	3.0	.....	22.0	.....	.....	.....	22.0	.....	.....	59985	"
	As found.....	3.08	3.74	.....	.....	.....	24.73	.....	.....	.....		
617	As guaranteed	5.0	.....	8.0	.....	.....	.....	8.0	7.0	.....	59986	"
	As found.....	4.06	4.93	4.85	3.86	1.12	9.83	8.71	7.34	.....		
896	As guaranteed	1.65	2.0	5.06	2.83	0.91	8.91	8.0	10.0	.....	59987	"
	As found.....	2.04	2.48	5.13	3.36	0.71	9.20	8.49	10.22	.....		
893	As guaranteed	2.47	3.0	6.14	3.46	0.97	8.97	8.0	5.0	.....	59988	"
	As found. ....	2.45	2.98	4.65	3.27	0.81	8.73	7.92	4.67	.....		
897	As guaranteed	0.82	1.0	5.83	2.28	0.65	8.65	8.0	4.0	.....	59989	"
	As found.....	1.13	1.38	5.00	3.19	0.89	9.08	8.19	4.36	.....		
894	As guaranteed	.....	.....	8.0	2.0	1.0	11.0	10.0	8.0	.....	59990	"
	As found.....	.....	.....	8.15	1.92	0.88	10.95	10.07	8.25	.....		
891	As guaranteed	1.65	2.0	4.92	3.38	0.94	8.94	8.0	2.0	.....	59991	"
	As found.....	1.96	2.38	4.30	4.29	0.94	9.53	8.59	2.08	.....		
663	As guaranteed	2.0	.....	.....	.....	.....	7.0	.....	2.0	.....	59992	"
	As found.....	2.24	2.72	.....	.....	.....	8.93	.....	2.38	.....		
478	As guaranteed	7.0	.....	.....	.....	.....	10.0	.....	.....	.....	59993	"
	As found.....	6.82	8.27	.....	.....	.....	12.70	.....	.....	.....		
473	As guaranteed	4.0	.....	.....	.....	.....	6.0	.....	4.0	.....	59994	"
	As found.....	4.20	5.10	.....	.....	.....	7.95	.....	4.31	.....		
472	As guaranteed	3.0	.....	.....	.....	.....	7.0	.....	3.0	.....	59995	"
	As found.....	3.08	3.74	.....	.....	.....	10.18	.....	9.12	.....		
700	As guaranteed	.....	.....	.....	.....	.....	10.0	9.0	3.0	.....	59996	"
	As found.....	.....	.....	.....	8.44	1.81	10.25	8.44	3.18	.....		
698	As guaranteed	.....	2.0	.....	.....	.....	10.0	9.0	2.0	.....	59997	"
	As found.....	2.35	2.86	.....	7.77	1.73	9.50	7.77	3.01	.....		
482	As guaranteed	3.0	.....	.....	.....	.....	8.0	.....	6.0	.....	59998	"
	As found.....	3.36	4.08	.....	.....	.....	8.65	.....	6.35	.....		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector' Report. (Is not an expression of opinion.)
				Quantity.	Cost.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1914.								
April 1	Harab N. B. Farmer's Special.	60000	The Harris Abattoir Co., Ltd., Toronto	3 lbs.	15	Vendors.....		
" 1	Harab No. 11 Clover and hay	62201	" "	"	15	"		
" 6	Davies Muriate of Potash.	62202	The Wm. Davies Co., Ltd., Toronto West.	"	15		The German Kali wks., Toronto.	
" 6	Davies Sulphate of Ammonia.	62203	" "	"	15		"	
" 6	Sulphate of Potash.	62204	" "	"	15		"	
" 6	Nitrate of Soda.	62205	" "	"	15		Nitrate Agencies Co., Toronto.	
" 6	Davies Early Vegetable Manure.	62206	" "	"	15	Vendors ..		
" 8	Gunn's Shur Crop Bowling Green Lawn Special, No. 3	62208	Gunn's Ltd., West Toronto.	"	15	"		
" 9	Pure Animal Fert., Brand H	62210	Wm. Harris & Co., Toronto.	"	15	"		
" 14	Freeman's Sure Growth.	62211	The W. A. Freeman Co., Ltd., Hamilton.	"	15	"		
" 14	Freeman's Potato Manure.	62212	" "	"	15	"		
" 14	Freeman's Pure Bone Meal.	62213	" "	"	15	"		
" 14	Pure Ground Blood.	62246	The Harris Abattoir Co., Ltd., Toronto.	"	15	"		
" 14	Shur Crop No. 19 Bearing Orchard.	62247	Gunn's Ltd., West Toronto.	"	15	"		
" 27	Shur Crop, General Field Crop No. 16.	62249	" "	"	15	"		
" 27	Shur Crop No. 13 Nova Scotia Potato Special	62250	" "	"	15	"		
" 27	Shur Crop No. 18 Bone and Potash.	62251	" "	"	15	"		
" 27	Shur Crop No. 17 Black Loam Special.	62252	Gunn's, Ltd., West Toronto.	"	15	"		
" 28	Muriate of Potash.	62253	"	"	15	"		
" 28	Shur Crop No. 11 Young Orchards.	62254	"	"	15	"		



## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total: including that of Nitric Acid or Ammonia if present	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
Concluded.													
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
699	As guaranteed	.....	1.0	.....	.....	.....	9.0	8.0	5.0	.....	60000	Meets guarantee.	
	As found.....	1.26	1.53	.....	8.05	2.10	10.15	8.05	5.85	.....			
479	As guaranteed	6.0	.....	.....	.....	.....	3.0	.....	5.0	.....	62201	"	
	As found.....	6.60	8.02	.....	.....	.....	4.48	.....	4.79	.....			
661	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50.0	.....	62202	"	
	As found.....	.....	.....	.....	.....	.....	.....	.....	50.23	.....			
664	As guaranteed	20.0	24.30	.....	.....	.....	.....	.....	.....	.....	62205	"	
	As found.....	21.1	.....	.....	.....	.....	.....	.....	.....	.....			
658	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.0	.....	62204	"	
	As found.....	.....	.....	.....	.....	.....	.....	.....	50.70	.....			
255	As guaranteed	15.0	18.30	.....	.....	.....	.....	.....	.....	.....	62205	"	
	As found.....	15.12	.....	.....	.....	.....	.....	.....	.....	.....			
363	As guaranteed	4.93	6.0	1.0	6.0	2.0	9.0	7.0	5.0	.....	62206	"	
	As found.....	5.08	6.17	none	6.17	1.36	7.53	6.17	6.79	.....			
613	As guaranteed	5.0	.....	6.0	.....	.....	.....	6.0	7.0	.....	62208	"	
	As found.....	5.03	6.10	0.45	8.61	1.57	10.63	9.06	7.03	.....			
957	As guaranteed	5.3	6.4	0.11	4.56	3.3	8.0	4.67	.....	.....	62210	"	
	As found.....	5.77	6.60	0.15	8.21	3.64	12.0	8.36	.....	.....			
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	.....	62211	"	
	As found.....	2.20	2.67	5.35	5.45	2.28	14.08	10.80	3.26	.....			
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0	.....	62212	"	
	As found.....	2.81	3.41	3.25	6.85	1.53	11.63	10.10	7.35	.....			
146	As guaranteed	2.47	3.0	.....	20.0	1.0	21.0	20.0	.....	.....	62213	"	
	As found.....	4.03	4.88	.....	12.45	9.78	22.23	12.45	.....	.....			
653	As guaranteed	11.0	.....	.....	.....	.....	2.0	.....	.....	.....	62246	"	
	As found.....	12.78	15.52	.....	.....	.....	2.45	.....	.....	.....			
1033	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	62247	"	
	As found.....	1.88	2.28	5.98	2.52	0.88	9.38	8.50	11.20	.....			
1036	As guaranteed	2.46	3.0	6.0	2.0	2.0	10.0	8.0	3.5	.....	62249	"	
	As found.....	2.46	2.99	5.20	3.52	0.88	9.60	8.72	3.86	.....			
1028	As guaranteed	3.3	4.0	4.0	2.0	2.0	8.5	6.0	10.0	.....	62250	"	
	As found.....	4.33	5.25	4.70	3.09	1.39	9.18	7.79	10.33	.....			
1032	As guaranteed	.....	.....	8.0	2.0	0.61	10.61	10.0	8.0	.....	62251	"	
	As found.....	.....	.....	8.08	1.25	1.32	10.65	9.33	8.21	.....			
1031	As guaranteed	.....	.....	8.0	2.0	0.61	10.61	10.0	4.0	.....	62252	"	
	As found.....	.....	.....	8.55	1.87	0.83	11.25	10.42	4.19	.....			
1035	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50.0	.....	62253	"	
	As found.....	.....	.....	.....	.....	.....	.....	.....	51.01	.....			
621	As guaranteed	2.0	.....	7.0	.....	.....	.....	7.0	5.0	.....	62254	"	
	As found.....	2.00	.....	4.73	3.53	1.17	9.43	8.26	5.73	.....			

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturers or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF HAMILTON—

1914.								
April 14	Freeman's Celery and Early Vegetable Manure.	62214	The W. A. Freeman, Hamilton.	3 lbs.	15	Vendors.....		
" 14	Freeman's Tobacco Manure.	62215	"	3 "	15	" .....		
" 14	Freeman's Tankage Manure.	62216	"	3 "	15	" .....		
" 14	Freeman's Bone Flour.	62217	"	3 "	15	" .....		
" 14	Freeman's Fruit Special.	62218	"	3 "	15	" .....		
" 17	Fruit Special...	62219	A. Howell, Paris, Ont.	3 "	15	Wm. Stone & Sons, Ingersoll.		
" 17	Stone Brand Oxford Special Fertilizer.	62220	Albert Huson, Paris, Ont.	3 "	15	" .....		
" 17	Stone Brand Grain & Roots Fertilizer.	62221	"	3 "	15	" .....		
" 17	Stone Brand XXX Potato and Beet Fertilizer.	62222	E. Pitt, Paris, Ont.	3 "	15	" .....		
" 17	Crocker's New York Special Phosphate.	62223	H. S. Knox, Lynden.	3 "	15	Am. Agr. Chem. Co., New York		
" 17	Crocker's Best Potash Fertilizer.	62224	"	3 "	15	" .....		
" 17	Crocker's Wheat and Corn Fertilizer.	62225	"	3 "	15	" .....		
" 21	High Grade Manure.	62226	B. L. Edgecombe, Dunnville.	3 "	15	The Buffalo Fert. Works, Buffalo.		
" 21	Garden Truck ..	62227	"	3 "	15	" .....		
" 21	Chapman's Tomato Special.	62228	"	3 "	15	" .....		
" 21	Wheat Special..	62229	"	3 "	15	" .....		
" 21	Celery and Potato Special.	62230	"	3 "	15	" .....		
" 21	Fish Guano.....	62231	"	3 "	15	" .....		
" 21	Ideal Wheat and Corn.	62232	"	3 "	15	" .....		
" 21	Bowker's Farm and Garden Phosphate.	62233	E. W. Moore, Dunnville.	3 "	15	The Bowker Fert. Co., Boston.		
" 21	Ten and Eight..	62234	"	3 "	15	" .....		

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.						Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.							
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.				

H. J. DAGER, ACTING INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
148	As guaranteed	4.12	5.0	5.5	3.5	0.25	9.25	9.0	5.0	.....	62214	Meets guarantee.
	As found.....	4.22	5.11	6.78	2.77	0.80	10.35	9.55	6.66	.....		
149	As guaranteed	2.47	3.0	5.0	2.0	0.25	7.25	7.0	5.0	.....	62215	"
	As found. ....	3.42	4.43	2.95	7.69	2.11	12.75	10.64	5.05	.....		
150	As guaranteed	4.12	5.0	0.5	12.0	0.05	13.0	12.0	.....	.....	62216	"
	As found. ....	5.50	6.68	0.45	13.45	3.93	17.83	13.90	.....	.....		
505	As guaranteed	0.85	1.0	.....	28.0	1.0	.....	28.0	.....	.....	62217	"
	As found.....	0.90	1.09	.....	17.97	12.48	30.45	17.97	.....	.....		
837	As guaranteed	1.65	2.0	5.0	3.0	0.25	8.25	8.0	10.0	.....	62218	1 p.c. low in potash.
	As found.....	1.82	2.21	4.60	4.32	1.28	10.20	8.92	8.55	.....		
539	As guaranteed	1.64	2.0	6.5	1.5	1.25	9.25	8.0	10.0	.....	62219	Meets guarantee.
	As found.....	2.40	2.92	6.30	2.36	0.69	9.35	8.66	10.69	.....		
839	As guaranteed	0.83	1.0	9.0	1.0	1.0	11.0	10.0	2.0	.....	62220	"
	As found.....	0.99	1.21	6.90	4.04	1.31	12.25	10.94	2.25	.....		
545	As guaranteed	1.64	2.0	6.5	1.5	1.25	9.25	8.0	2.0	.....	62221	"
	As found.....	2.39	2.91	4.93	3.35	1.22	9.50	8.28	2.29	.....		
709	As guaranteed	1.64	2.0	.....	.....	1.25	9.25	8.0	6.0	.....	62222	"
	As found.....	3.13	3.94	.....	7.67	1.11	8.78	7.67	6.22	.....		
192	As guaranteed	.....	.....	8.0	2.0	1.0	11.0	10.0	8.0	.....	62223	"
	As found.....	1.83	2.23	7.23	2.94	0.73	10.90	10.17	8.18	.....		
194	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	62224	"
	As found.....	2.11	2.62	6.58	2.06	1.26	9.90	8.64	10.43	.....		
195	As guaranteed	2.36	2.5	6.0	2.0	1.0	9.0	8.0	1.5	.....	62225	"
	As found. ....	2.90	2.81	4.73	3.28	1.02	9.03	8.01	2.10	.....		
647	As guaranteed	3.3	4.0	5.0	2.0	1.0	8.0	7.0	10.0	.....	62226	Two and one-half p.c. low in potash.
	As found.....	3.27	3.86	3.90	4.98	2.0	10.88	8.88	7.22	.....		Meets guarantee.
646	As guaranteed	3.3	4.0	6.0	2.0	1.0	9.0	8.0	7.0	.....	62227	"
	As found.....	3.56	4.20	4.0	4.57	1.93	10.50	8.57	7.16	.....		
644	As guaranteed	1.6	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	62228	"
	As found.....	1.82	2.21	4.50	3.15	1.95	9.60	7.65	9.96	.....		
638	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5	.....	62229	"
	As found.....	1.74	2.12	4.53	3.65	1.85	10.03	8.18	3.05	.....		
643	As guaranteed	1.6	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	62230	"
	As found.....	2.48	3.00	4.38	3.96	2.39	10.73	8.34	9.23	.....		
637	As guaranteed	0.80	1.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	62231	"
	As found.....	1.19	1.44	5.58	3.03	2.44	11.05	8.61	3.26	.....		
641	As guaranteed	1.6	2.0	7.0	2.0	1.0	10.0	9.0	5.0	.....	62232	"
	As found.....	1.64	1.99	6.83	3.59	1.48	11.90	10.42	5.23	.....		
577	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	62233	"
	As found.....	1.96	2.38	2.31	5.69	1.45	9.45	8.0	1.98	.....		
749	As guaranteed	.....	.....	8.0	2.0	1.0	11.0	10.0	8.0	.....	62234	"
	As found.....	.....	.....	7.58	2.83	0.82	11.23	10.41	8.18	.....		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF HAMILTON

1914.								
April 23	Muriate of Potash.	62235	Ernest Platts, 3 Town Corners.	lbs.	15	The Buffalo Fert. Works, Buffalo.		
" 23	Bone Meal.....	62236	" 3 "	"	15	"		
" 23	Lawn and Garden Dressing.	62237	W. G. Somerville & Son, Wellingland.	3 "	15	The Bowker Fert. Co., Boston.		No. reg. No. on the bag.
" 23	Extra Phosphate and Potash.	62238	Ernest Platts, 3 Town Corners.	3 "	15	The Buffalo Fert. Works, Buffalo.		
" 24	Bradleys B. D. Seafoul Guano.	62240	Titterington Bros.	3 "	15	The Am. Agr. Chem. Co., Ltd., New York.		
" 24	Fine Ground Bone.	62241	St. Catherine's Cold Storage and Forwarding Co., Ltd., St. Catherine's.	3 "	15	Lesage Pack. and Fert. Co., Montreal.		
" 24	Fine Ground Bone.	62242	"	3 "	15	The Am. Agr. Chem. Co., Ltd., Buffalo.		
" 24	Fruit and Vine.	62243	" 3 "	"	15	The Schaal Sheldon Fert. Co., Buffalo.		
" 24	Complete Fertilizer with Extra Potash.	62244	R. H. Cross, St. Catherine's.	3 "	15	"		
" 30	Ten & Eight....	62255	Chas. Richards, Hamilton.	3 "	15	"		

DISTRICT OF WINDSOR—

Mar.	9 XXX Potato and Beet Fertilizer.	53615	Wm. Stone & Sons, Ingersoll	3 jars.	Nil.	Vendors.....		
"	9 Grain and Root Fertilizer.	53616	"	3 "	"	"		
"	9 Oxford Special..	53617	"	3 "	"	"		
" 15	Tobacco Manure	53650	Samuel Glenn & Son, Chatham.	3 "	"	Wm. Stone & Sons, Ingersoll		
" 15	Grain and Root Fertilizer.	53651	"	3 "	"	"		

SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.										No. of Sample.	Remarks and Opinions of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Finesness.			
—Continued.													
649	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48 0'	.....	62235	Meets guarantee.	
	As found.....	.....	.....	.....	.....	.....	.....	.....	50'51	.....	.....	.....	
648	As guaranteed	2'4	3'0	.....	.....	.....	22'0	.....	.....	.....	62236	Three and one-	
	As found.....	2'94	3'57	.....	.....	.....	18'65	.....	.....	.....	.....	half p.c. low in phosphoric acid.	
	As found.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62237	Not registered.	
636	As guaranteed	.....	.....	8'0	2'0	1'0	11'0	10'0	8'0	.....	62238	Meets guarantee.	
	As found.....	.....	.....	7'00	1'89	2'11	11'00	8'89	7'59	.....	.....	.....	
188	As guaranteed	2'06	2'5	6'0	2'0	1'0	9'0	8'0	1'5	.....	62240	"	
	As found.....	2'19	2'55	3'43	5'21	1'46	10'10	8'64	2'66	.....	.....	.....	
761	As guaranteed	0'82	1'0	.....	13'28	16'94	30'22	13'28	.....	.....	62241	"	
	As found.....	0'95	1'16	.....	19'32	12'68	32'00	19'32	.....	.....	.....	.....	
238	As guaranteed	2'47	3'0	.....	.....	.....	22'88	.....	.....	.....	62242	"	
	As found.....	2'85	3'47	.....	.....	.....	25'25	.....	.....	.....	.....	.....	
583	As guaranteed	2'47	3'0	4'0	2'0	1'0	7'0	6'0	10'0	.....	62243	"	
	As found.....	2'60	3'16	3'90	2'31	0'97	7'18	6'21	10'62	.....	.....	.....	
874	As guaranteed	1'65	2'0	6'0	2'0	1'0	9'0	8'0	10'0	.....	62244	"	
	As found.....	1'78	2'16	6'0	2'15	1'15	9'30	8'15	9'60	.....	.....	.....	
935	As guaranteed	.....	.....	8'0	2'0	1'0	11'0	10'0	8'0	.....	62255	"	
	As found.....	0'71	0'87	6'70	3'39	0'81	10'90	10'09	8'70	.....	.....	.....	

JNO. TALBOT, INSPECTOR.

709	As guaranteed	1'64	2'0	.....	.....	1'25	9'25	8'0	6'0	.....	53615	Meets guarantee
	As found.....	2'06	2'60	.....	8'86	2'14	11'00	8'86	5'60	.....	.....	.....
545	As guaranteed	1'64	2'0	6'5	1'5	1'25	9'25	8'0	2'0	.....	53616	"
	As found.....	2'24	2'72	3'88	4'02	1'35	9'25	7'90	3'24	.....	.....	.....
889	As guaranteed	0'83	1'0	9'0	1'0	1'0	11'0	10'00	2'0	.....	53617	"
	As found.....	2'03	2'46	7'0	3'87	1'71	12'58	10'87	2'12	.....	.....	.....
541	As guaranteed	2'47	3'0	5'5	1'5	1'25	8'25	7'0	4'0	.....	53650	"
	As found.....	3'10	3'77	3'88	3'24	0'88	8'00	7'12	3'63	.....	.....	.....
545	As guaranteed	1'64	2'0	6'5	1'5	1'25	9'25	8'0	2'0	.....	53651	"
	As found.....	1'75	2'00	4'83	3'71	0'99	9'53	8'54	2'14	.....	.....	.....

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF WINDSOR—

1914.								
Mar. 15	XXX Potato and Beet Fertilizer.	53352	Samuel Glenn & Son, Chatham.	3 jars.	Nil.	Wm. Stone & Sons, Ingersoll		
" 15	Farmers' Choice	53653	Jas. D. Souter, Chatham.	3 "	"	Buffalo Fert. Co., Buffalo.		
" 15	Ideal Brand ...	53654	"	3 "	"	"		
" 15	Celery and Potato.	53655	"	3 "	"	"		
" 15	High Grade Garden and Vegetable Fertilizer.	53656	"	3 "	"	Michigan Carbon Works, Detroit		
" 15	A-1 Potash Fertilizer.	53657	"	3 "	"	"		
April 16	Phosphate Powder.	53658	W. W. Mancekivell, Ingersoll.	3 "	"	W. A. Freeman Co., Hamilton.		
" 16	Celery and Early Vegetable.	53659	"	3 "	"	"		
" 16	Bone Flour....	53660	"	3 "	"	"		
" 16	Freeman's Special 2-8-10.	53661	"	3 "	"	"		
" 16	Bone, Blood and Potash.	53662	Wm. Stone & Sons, Ingersoll	3 "	"	Vendors.....		
" 16	Tobacco Manure	53663	"	3 "	"	"		
" 16	Fruit Special ...	53664	"	3 "	"	"		
" 16	Stone's Niagara.	53665	"	3 "	"	"		
" 17	Sure Growth....	53666	A. Hastings & Sons, Woodstock.	3 "	12½	W. A. Freeman Co., Hamilton.		
" 17	2-8-10....	53667	"	3 "	"	Davies & Co., Toronto.		
" 18	Celery and Potato Special...	53668	Geo. Philip, St. Thomas.	3 "	15	Buffalo Fert. Works, Buffalo.		
" 18	Ideal Wheat and Corn .....	53669	"	3 "	"	"		
" 18	Farmers' Choice.	53670	"	3 "	"	"		
" 20	Best Potato Fertilizer.	53671	F. Standeven, St. Thomas.	3 "	Nil.	Michigan Carbon Works, Detroit.		
" 20	A-1 Potash .....	53672	"	3 "	"	"		

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid, per cent.						
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.		

Continued.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
709	As guaranteed	1.64	2.0	.....	.....	1.25	9.25	8.0	6.0	.....	53652	Meets guarantee.
	As found.....	1.90	2.31	.....	7.80	0.80	8.60	7.80	5.75	.....		
639	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	53653	"
	As found.....	1.43	1.73	5.15	3.87	0.76	9.78	9.02	5.27	.....		
641	As guaranteed	1.60	2.0	7.0	2.0	1.0	10.0	9.0	5.0	.....	53654	"
	As found.....	2.38	2.89	5.55	3.49	2.21	11.25	9.04	5.25	.....		
643	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	53655	"
	As found.....	1.61	1.95	3.93	3.79	1.68	9.40	7.72	10.04	.....		
209	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	53656	"
	As found.....	1.61	1.96	6.15	2.51	1.77	10.43	8.66	5.40	.....		
526	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	3.0	.....	53657	"
	As found.....	1.18	1.43	6.23	1.23	1.79	9.25	7.46	3.38	.....		
151	As guaranteed	.....	.....	13.0	2.0	0.50	15.5	15.0	.....	.....	53658	"
	As found.....	.....	.....	14.53	1.13	1.89	17.55	15.66	.....	.....		
148	As guaranteed	4.12	5.0	5.5	3.5	0.25	9.25	9.0	5.0	.....	53659	"
	As found.....	3.11	3.77	9.66	2.87	1.33	13.80	12.47	6.84	.....		
505	As guaranteed	0.85	1.0	.....	28.0	1.0	.....	28.0	.....	.....	53660	"
	As found.....	0.75	0.92	.....	16.80	12.55	20.35	16.80	.....	.....		
837	As guaranteed	1.65	2.0	5.0	3.0	0.25	8.25	8.0	10.0	.....	53661	"
	As found.....	1.74	2.11	4.68	3.52	1.28	9.48	8.20	11.16	.....		
544	As guaranteed	3.29	4.0	5.5	2.5	1.50	9.50	8.0	7.0	.....	53662	"
	As found.....	3.67	4.45	5.0	3.50	0.93	9.43	8.50	6.90	.....		
541	As guaranteed	2.74	3.0	5.5	1.5	1.25	8.25	7.0	4.0	.....	53663	"
	As found.....	2.52	3.06	4.15	2.74	0.76	7.65	6.89	4.35	.....		
539	As guaranteed	1.64	2.0	6.5	1.5	1.25	9.25	8.0	10.0	.....	53664	"
	As found.....	2.10	2.55	5.68	3.01	1.51	10.20	8.69	10.31	.....		
888	As guaranteed	.....	.....	7.5	0.5	0.5	8.5	8.0	10.0	.....	53665	"
	As found.....	.....	.....	5.88	2.92	0.73	9.53	8.80	9.25	.....		
144	As guaranteed	2.89	3.60	5.0	3.0	0.25	8.25	8.0	3.0	.....	53666	"
	As found.....	2.97	3.60	.....	7.97	1.53	9.50	7.97	4.34	.....		
675	As guaranteed	1.64	2.0	.....	.....	.....	9.0	8.0	10.0	.....	53667	Deficiency in potash, is compensated in value.
	As found.....	2.14	2.60	.....	.....	.....	12.83	9.98	8.42	.....		
643	As guaranteed	1.60	2.0	6.0	2.0	1.0	9.0	8.0	10.0	.....	53668	Meets guarantee.
	As found.....	1.82	2.21	4.63	3.60	1.32	9.55	8.23	10.44	.....		
641	As guaranteed	1.60	2.0	7.0	2.0	1.0	10.0	9.0	5.0	.....	53669	"
	As found.....	3.32	4.02	4.18	4.08	1.54	9.80	8.26	6.47	.....		
639	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	53670	Deficiency of one per cent potash.
	As found.....	1.40	1.70	4.70	3.17	1.76	9.63	7.87	3.86	.....		
523	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	16.0	.....	53671	Meets guarantee.
	As found.....	1.98	2.34	6.48	2.04	2.13	10.65	8.52	10.42	.....		
526	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	3.0	.....	53672	
	As found.....	1.18	1.43	6.33	2.26	1.51	10.10	8.59	3.16	.....		

6 GEORGE V, A. 1916

BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendors.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF WINDSOR—

1914.								
April 20	Special Beet Fertilizer.	53673	F. Standeven, St. Thomas.	3 jars	Nil.	Mich. Carbon Wks., Detroit.		
" 24	Harab No. 6....	53674	O. H. Killer, Stratford.	3 "	"	Harris Abattoir Co., Toronto.		

## DISTRICT OF ALBERTA

Mar. 20	A. Fertilizer....	51957	P. Burns & Co., Calgary.	3½ Lbs.	Nil.	Vendors.....		
" 20	B. Fertilizer....	51958	"	3 "	"	"		
" 20	C. Fertilizer....	51959	"	3 "	"	"		
" 20	D. Fertilizer ...	51960	"	3 "	"	"		

## DISTRICT OF ROCKY MOUNTAINS—

April 27	Fertilizer A....	50092	Brackman Ker Milling Co., Nelson, B.C.	3 Lbs.	15	Victoria Chem. Co., Victoria, B.C.		
" 27	Fertilizer B....	50093	"	3 "	15	"		
" 27	Fertilizer C....	50094	"	3 "	15	"		
" 27	Fertilizer D....	50095	"	3 "	15	"		
" 27	Sulphate of Potash.	50096	"	3 "	15	"		
" 27	Muriate of Potash.	50097	"	3 "	15	"		
" 27	Nitrate of Soda.	50098	"	3 "	15	"		
" 27	Basic Slag ....	50099	"	8 "	15	"		
" 27	Fertilizer A....	50100	P. Burns & Co., Nelson, B.C.	3 "	15	P. Burns & Co., Calgary.		
" 27	" B ....	61601	"	3 "	15	"		
" 27	" C....	61602	"	3 "	15	"		
" 27	" D....	61603	"	3 "	15	"		



## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Remarks and Opinion of the Chief Analyst.				
		Nitrogen p.c.		Phosphoric Acid, per cent.									
		Total : including that of Nitric Acid or Am- monia if present.	Total : Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
									Potash.		Fineness.	No. of Sample.	

## Concluded.

208	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	5.0	.....	53673	Meets guarantee.
	As found. ....	2.03	2.46	6.30	2.53	1.30	10.13	8.83	5.52	.....		
701	As guaranteed	2.0	.....	.....	.....	.....	9.0	.....	3.0	.....	53674	"
	As found. ....	2.59	3.14	.....	.....	.....	11.60	.....	4.08	.....		

## A. W. R. MARKLEY, INSPECTOR.

430	As guaranteed	2.80	3.40	0.26	1.15	13.89	15.30	1.41	3.80	....	51957	Meets guarantee.
	As found. ....	2.90	3.51	0.26	9.07	7.35	16.68	9.33	4.91	.....		
431	As guaranteed	6.10	7.40	0.11	9.28	2.81	12.20	9.39	4.77	.....	51958	"
	As found. ....	7.28	8.84	0.39	6.63	2.43	9.37	7.02	9.56	.....		
432	As guaranteed	5.61	6.81	0.86	3.07	6.67	10.60	3.93	5.71	.....	51959	"
	As found. ....	6.44	7.82	0.35	6.60	3.03	10.03	6.95	8.65	.....		
433	As guaranteed	6.53	7.93	0.17	8.25	4.30	12.72	8.41	4.66	.....	51960	"
	As found. ....	6.27	7.61	0.29	6.46	3.20	9.97	6.75	10.06	.....		

## THOS. PARKER, INSPECTOR.

73	As guaranteed	4.0	.....	10.0	.....	.....	.....	.....	7.0	.....	50092	Meets guarantee.
	As found. ....	4.20	5.10	9.53	0.94	1.08	11.55	10.47	7.18	.....		
924	As guaranteed	3.5	4.25	9.0	.....	.....	9.0	9.0	11.90	.....	50093	"
	As found. ....	2.94	3.57	8.65	1.09	0.96	10.70	9.74	14.23	.....		
75	As guaranteed	.....	.....	12.5	.....	.....	.....	.....	11.0	.....	50094	Deficiency of 1½
	As found. ....	1.96	2.38	12.98	0.02	0.45	13.45	13.00	9.44	.....		p.c. potash.
76	As guaranteed	2.5	.....	10.0	.....	.....	.....	.....	11.0	.....	50095	Meets guarantee.
	As found. ....	2.94	3.57	10.30	1.81	0.72	12.83	12.11	10.85	.....		
78	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50.0	.....	50096	"
	As found. ....	.....	.....	.....	.....	.....	.....	.....	50.85	.....		
79	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50.0	.....	50097	"
	As found. ....	.....	.....	.....	.....	.....	.....	.....	53.34	.....		
77	As guaranteed	15.0	.....	.....	.....	.....	.....	.....	.....	.....	50098	"
	As found. ....	14.55	.....	.....	.....	.....	.....	.....	.....	.....		
513	As guaranteed	.....	.....	.....	.....	.....	.....	16.0	.....	.....	50099	2 p.c. deficiency
	As found. ....	.....	.....	.....	13.65	.....	18.75	.....	.....	.....		in available
												phosphoric acid.
430	As guaranteed	2.80	3.40	0.26	1.15	13.89	15.30	1.41	3.80	....	50100	Meets guarantee.
	As found. ....	5.46	6.63	Trace.	11.00	9.25	20.25	11.00	5.45	.....		
431	As guaranteed	6.10	7.40	0.11	9.28	2.81	12.20	9.39	4.77	.....	61601	Meets guarantee
	As found. ....	6.31	7.67	0.25	7.00	2.14	9.39	7.25	7.65	.....		value by
												excess potash;
												compensated.
432	As guaranteed	5.61	0.81	0.86	3.07	6.67	10.60	3.93	5.71	.....	61602	Meets guarantee.
	As found. ....	7.56	9.18	0.25	6.77	3.38	10.40	7.02	6.62	.....		
433	As guaranteed	6.53	7.93	0.17	8.25	4.30	12.72	8.41	4.66	.....	61603	"
	As found. ....	8.14	9.89	0.53	6.73	2.52	9.58	7.06	7.92	.....		

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BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF VANCOUVER—

1914.								
Mar.	3 Fertilizer A...	54954	Brackman Ker M. Co., Ltd., Vancouver, B.C.	3 jars	25	Victoria Chem. Co., Ltd., Victoria, B.C.		
"	3 " B...	54955	"	3 "	25	"		
"	3 " B Special	54956	"	3 "	25	"		
"	3 Superphosphate of Lime.	54957	"	3 "	25	"		
"	5 Fertilizer C...	54958	"	3 "	25	"		
"	5 " D...	54959	"	3 "	25	"		
"	5 Muriate of Potash.	54960	"	3 "	20	"		
"	5 Nitrate of Soda.	54961	"	3 "	25	"		
"	9 Bone Meal....	54962	A. R. MacDougall, 3011 Westminster Road, B.C.	3 "	25	Unknown	Victoria Chem. Co., Ltd., Victoria, B.C.	No Reg. No. or analysis on bags.
"	9 Clays' Fertilizer	54963	"	3 "	50	Clays, London, Eng.	J. A. Simmers, Toronto.	No Reg. No. or analysis on bag.
"	10 Nitrate of Lime.	54964	Wm. Rennie Co., Ltd., Vancouver, B.C.	3 "	25	Unknown		No Reg. No. or analysis on bbl. Imported by Vendor from San Francisco, Cal.
"	10 Blood .....	54965	P. Burns & Co. Ltd., Vancouver, B.C.	3 "	...	Vendors		
"	10 Tankage.....	54966	"	3 "	...	"		
"	11 Canary Guano	54967	A. J. Woodward, Vancouver, B.C.	2 cans	100	The Chemical Union, Ipswich, Eng.		No Reg. No. or analysis on package
"	13 Unground Tankage.	54968	Swift Canadian Co. Ltd., Eburne, B.C.	3 jars	...	Vendors		
"	16 B. & K. Bone Meal.	54969	Brackman Ker M. Co. Ltd., New Westminster, B.C.	3 "	...	Canadian North Pacific Fisheries, Ltd., Victoria, B.C.		
"	16 Basic Slag.....	54970	"	3 "	...	Victoria Chem. Co. Ltd., Victoria, B.C.		

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.						Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.							
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.				

E. J. MORGAN, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
73	As guaranteed	4.0		10.0					7.0		54954	Nearly meets guarantee.
	As found.....	3.85		10.40	3.51	1.04	14.95	13.91	6.12			
924	As guaranteed	3.50	4.25	9.0			9.0	9.0	11.0		54955	1½ p.c. low in potash.
	As found.....	3.39	4.11	9.63	1.23	2.52	13.88	10.86	9.46		54956	Meets guarantee.
924	As guaranteed	3.50	4.25	9.0			9.0	9.0	11.0		54956	Meets guarantee.
	As found.....	3.75	4.55	10.78	0.0	0.15	10.93	10.78	10.95		54957	Meets guaranteed value.
80	As guaranteed			16.0							54958	Meets guarantee.
	As found.....	0.70	0.85	13.67	2.34	2.91	18.80	15.89			54959	Nearly meets guarantee.
75	As guaranteed			12.5					11.0		54960	Meets guarantee.
	As found.....			13.28	0.53	0.59	14.40	13.81	11.15		54961	"
76	As guaranteed	2.5		10.0					11.0		54962	Not registered.
	As found.....	2.38	2.89	9.48	1.69	2.33	13.50	11.17	9.74		54963	"
79	As guaranteed								50.0		54964	"
	As found.....								54.27		54965	"
77	As guaranteed	15.0									54966	"
	As found.....	15.55									54967	Not registered.
	As found.....	5.60	6.80				25.58				54968	"
		4.43				*			0.21		54969	"
	As found.....	5.18	6.29		4.81	4.02	8.83	4.81	0.27		54970	"
		4.48	5.14								54971	"
	As found.....	4.48	5.14								54972	"
603	As guaranteed	12.34	15.0								54965	Meets guarantee.
	As found.....	14.45	17.54								54966	"
602	As guaranteed	6.73	7.75				11.0				54967	Not registered.
	As found.....	6.34	7.70				12.23				54968	Meets guarantee.
	As found.....										54969	"
705	As guaranteed	4.93	6.0				10.0				54970	"
	As found.....	7.18	9.69				12.53				54971	"
355	As guaranteed		3.5				26.0				54972	"
	As found.....	3.45	4.20				25.75				54973	"
513	As guaranteed				16.00			16.0			54974	"
	As found.....				18.10			18.40			54975	"

Insoluble Phosphates 15.81 p.c.

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BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF VANCOUVER—

1914.								
Mar. 16	Tankage.....	54971	Vanc'r. Prince Rupert Meat Co. Ltd., New Westminster, B.C.	3 jars.	.....	Vendors.....		
" 16	Dried Blood....	54972	"	3 "	.....	"		
" 17	Ground Bone No. 1.	54973	"	3 "	.....	"		
" 17	Ground Bone No. 2.	54974	"	3 "	.....	"		
" 17	Ground Bone No. 3.	54975	"	3 "	.....	"		
" 21	Ritchie's Fertilizer.	54976	Ritchie, Brand & Co., Robson Street, Vancouver, B.C.	1 bag.	75	Richardsons Chem. Manure Co., Belfast, Ireland.		Not registered.

## DISTRICT OF VICTORIA—

April 17	Bone Meal.....	61911	Brackman & Ker M. Co. Ltd., Victoria, B.C.	3 lbs	.....	Vendors.....		
" 17	Complete Fertilizer.	61912	Sylvester Feed Co., Victoria, B.C.	3 "	12½	"		
" 17	Complete Fertilizer.	61913	"	3 "	"	"		In bulk....
" 21	A. Fertilizer ...	61914	Victoria Chem. Co., Ltd., Victoria, B.C.	4 "	12	"		
" 21	B. Fertilizer....	61915	"	4 "	12	"		
" 21	C. Fertilizer....	61916	"	4 "	12	"		
" 21	D. Fertilizer....	61917	"	4 "	12	"		
" 21	Muriate of Potash.	61918	"	4 "	12		Meyer Wil son, San Francisco.	
" 21	Sulphate of Potash.	61919	"	4 "	12		"	

## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.										Remarks and Opinion of the Chief Analyst.	
		Nitrogen p.c.		Phosphoric Acid percent.									
		Total : including that of Nitric Acid or Ammonia if present	Total : Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Pineness.	No. of Sample.		
<i>Concluded.</i>													
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
902	As guaranteed	7.20	8.75	.....	4.5	6.3	10.9	4.6	0.25	.....	54971	Meets guarantee.	
	As found.....	7.46	9.06	.....	6.69	3.39	10.08	6.69	0.70	.....			
903	As guaranteed	12.25	14.90	.....	1.10	0.59	1.73	1.14	0.05	....	54972	"	
	As found.....	11.91	14.47	.....	1.06	0.22	1.28	1.06	.....	.....			
904	As guaranteed	4.10	4.95	.....	10.94	14.90	25.90	11.00	0.05	.....	54973	"	
	As found.....	4.84	5.88	.....	10.82	12.67	23.49	10.82	.....	.....			
905	As guaranteed	4.10	4.95	.....	10.94	14.90	25.90	11.00	0.05	.....	54974	"	
	As found.....	4.69	5.69	.....	10.80	13.88	24.68	10.80	.....	.....			
906	As guaranteed	4.10	4.95	.....	10.94	14.90	25.90	11.00	0.05	.....	54975	"	
	As found.....	4.72	5.73	....	11.18	13.35	24.53	11.18	.....	.....			
		.....	.....	.....	.....	.....	.....	.....	.....	.....	54976	Not registered.	
	As found.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			

## D. O'SULLIVAN, INSPECTOR.

355	As guaranteed	.....	3.5	.....	.....	.....	26.0	.....	.....	.....	61911	Meets guarantee.
	As found....	4.27	5.18	.....	.....	.....	25.73	.....	.....	.....		
884	As guaranteed	1.68	2.04	.....	5.63	13.40	19.03	5.63	.....	.....	61912	5% low in phosphoric acid.
	As found.....	2.27	2.75	.....	7.08	7.34	13.62	7.08	.....	.....		
884	As guaranteed	1.68	2.04	.....	5.63	13.40	19.03	5.63	.....	.....	61913	9% low in phosphoric acid.
	As found.....	2.76	3.33	.....	4.98	5.09	10.97	4.98	.....	.....		
73	As guaranteed	4.0	.....	10.0	.....	.....	.....	.....	7.0	.....	61914	Meets guarantee.
	As found....	3.96	4.81	11.08	0.60	1.0	12.68	11.68	7.91	.....		
924	As guaranteed	3.50	.....	.....	.....	.....	9.0	.....	11.0	.....	61915	Low in nitrogen and potash partly compensated in value by excess phosphoric acid.
	As found.....	1.88	2.28	10.25	2.05	2.55	14.85	12.30	9.90	.....		
75	As guaranteed	.....	.....	12.5	.....	.....	.....	.....	11.0	.....	61916	Meets guarantee.
	As found....	.....	.....	11.83	4.72	1.68	18.23	16.55	13.17	.....		
76	As guaranteed	2.5	.....	10.0	.....	.....	.....	.....	11.0	.....	61917	3 p.c. low in potash. Excess sol. phosphoric acid.
	As found.....	2.09	2.53	11.65	1.43	0.47	13.55	13.08	7.98	.....		
79	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50.0	.....	61918	Practically meets guarantee.
	As found.....	.....	.....	.....	.....	.....	.....	.....	48.73	.....		
78	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50.0	.....	61919	Meets guarantee.
	As found.....	.....	.....	.....	.....	.....	.....	.....	51.36	.....		

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BULLETIN No. 291—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VICTORIA—

1914.								
April 21	Superphosphate of Lime.	61920	Victoria Chem. Co., Ltd., Victoria, B.C.	4 lbs.	12	Vendors.....		
" 21	Thomas Phosphate (Basic Slag)	61921	" ..	4 "	12	Sidney Smith, London, Eng.		
" 21	Bone Meal.....	61922	" ..	4 "	12	Canadian North Pacific Fisheries, Ltd., Victoria, B.C.		
" 21	Nitrate of Soda.	61923	" ..	4 "	12	Grace Co., San Francisco, Cal.		

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.						Remarks and Opinion of the Chief Analyst.	
		Nitrogen p.c.,		Phosphoric Acid per cent.					
		Total; including that of Nitric Acid or Ammonia if present	Total; Calculated as Ammonia.	Soluble in Water,	Reverted or Citrate Soluble.	Insoluble.	Total.		Total Available.
		Potash.	Finesness.	No. of Sample.					

[illegible]

**APPENDIX H.****BULLETIN No. 292—CONFECTIONERY (MARSH-MALLOWS)**

---

OTTAWA, September 8 1914.

J. U. VINCENT, Esq.,  
Deputy Minister of Inland Revenue.

SIR,—I have the honour to hand you a report upon ninety-three (93) samples of so called Marsh-mallows (confectionery), purchased by our inspectors in May, June and July of this year.

Complaints have been made that various confections in which whiteness is desired, and so called "Marsh-mallows" in particular, frequently contain notable amounts of sulphurous acid and sulphites. It was with a view to ascertaining whether or not any ground in fact existed for these complaints that the collection now reported was made.

It is gratifying to know that dangerous excess of sulphurous acid has not been found in any sample. Fifty-one (51) samples (constituting 55 per cent on the whole) are found to be entirely free from sulphurous acid, and 20 others yield traces only.

Twenty-two samples (23 per cent of the collection) contain distinct amounts of sulphurous acid; but in no case does the quantity present exceed one part in two thousand parts (1 in 2,000) by weight of the confection. This amount is generally believed to be quite harmless to health, and is permitted by Order in Council of 4th April last, published by this department as Circular G 1111.

The Order in Council named became effective on the 11th May of this year; and decrees that when sulphurous acid (in any form) is present in a food or drink, the fact of its presence shall be declared on the label. This condition was not fulfilled in any of the cases herein reported, and in strict reading of the law, all samples in which any determinable amounts of sulphurous acid were found, are amenable to penalty.



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Since, however, the collection was made so soon after the Order in Council became effective, and inasmuch as it is usual to allow a reasonable period of time to elapse between the publication of a new regulation and its enforcement, in cases where danger to health is not involved, I would respectfully recommend that, so far as this report is concerned, no action be taken by the department. I would further recommend publication of this report as Bulletin No. 292.

I have the honour to be, Sir

Your obedient servant,

A. MCGILL,  
*Chief Analyst*

## BULLETIN No. 292—MARSH-MALLOWES.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report (is not an expression of opinion.)	Results of Analysis.		N. o. of Sample.	Remarks, and Opinion of the Chief Analyst.
			Quantity.		Cent.	Manufacturer.	Furnisher.	Sulphites.					
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.													
1914.													
June 25	Marsh-Mallows.	41877	Wm. Anstin, N.S.	Halifax, 1 lb.	40	Ganong Bros. St. Stephen, N.B.	Manufacturers			Trace	41877		Less than 1 part in 2,000.
" 26	"	41878	Morris Ltd., N.S.	Halifax, N.S. 1 "	20	Vendors				"	41878		
" 26	"	41879	D. R. Ross, N.S.	Halifax, 1 "	40	Wm. Patterson Co., Brantford, Ont.	Manufacturers			Present	41879		
" 30	"	41880	G. J. Hamilton, Halifax, N.S.	& Son, 1 "	45	G. J. Hamilton, Pictou, N.S.	"	Sold as MM. squares.	None		41880		
July 9	"	41881	Mrs. More, N.S.	More, Kentville, 1 "	60	Novelty Candy Co. Chicago, U.S.A.	McLure & Langley, Montreal.			"	41881		
DISTRICT OF NEW BRUNSWICK—JOHN C. FERGUSON, INSPECTOR.													
June 9	Marsh-Mallows.	59536	W. A. Simonds, John, N.B.	St. 3 pags	30	Rueckheim Bros. & Eckstein, Chicago, Ill.		Angelus Chocolate Marsh-Mallows.	Trace		59536		Less than 1 part in 2,000.
" 10	"	59537	The Corona Co., St. John, N.B.	Ltd., 3 boxes	35	Vendors		Crown Marsh-Mallows.	"		59537		
" 18	"	59538	V. A. Danville, Ham. N.B.	Chat 1 lb.	40	Robertsons, Toronto.	Christie Brown & Co., Ltd., Toronto.		Present		59538		
" 23	"	59539	Ganong Bros., St. Stephen, N.B.	St. 1 "	55	Vendors		G. B. Brand	"		59539		
" 25	"	59540	Geo. F. Wilkes, Pictou, N.B.	Frederic 1 "	40	McCormick Mfg. Co., London, Ont.			Trace		59540		"

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## DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.

May 22	Marsh Mallows	56281	Louis Mercier, 118 rue Gabriel, Quebec.	30	Christie Brown, Montreal.	Manufacturers.	Present.	56281	Less than 1 part in 2000.
" 26	"	56282	Ez. Turcotte, rue Des fosés, Quebec.	30	McGormicks, Len- don, Ont.	"	None.	56282	
" 28	"	56283	W. Macwilliam, 138 rue St. Jean, Quebec.	25	Unknown	Unknown	"	56283	
" 28	"	56284	"	50	"	"	"	56284	
" 28	"	56285	H. Delisle, 371 rue St Jean, Quebec.	25	McGormicks, Mon- treal.	Manufacturers.	Present.	56285	Less than 1 part in 2000.

## DISTRICT OF QUEBEC N. CADIEUX, TEMPORARY INSPECTOR.

June 10	Marsh Mallows	2555	Arthur Drouin, St. Jer- ome, P.Q.	25	"	A. Bourriette, La Chapelle, P.Q.	None.	2555	
" 10	"	2556	Michel Laporte, St. Jer- ome, P.Q.	15	"	"	Trace.	2556	
" 10	"	2557	Cajavalle, St. Jerome, P.Q.	22	"	Viat et Freres	Present.	2557	Less than 1 part in 2000.
" 13	"	2571	F. D. Hall, St. Agathe des Monts, P.Q.	40	Ganongs.	"	None.	2571	
" 13	"	2572	Geddon Cote, St. Agathe des Monts, P.Q.	18	Mooney Biscuit & Candy Co.	"	"	2572	

## DISTRICT OF QUEBEC PROVINCE—O. BROCHU TEMP. INSPECTOR.

June 3	Marsh Mallows	2540	Ad. Laroche, St. Mag- loire.	7	McGormick's, Lon- don, Ont.	"	Present.	2540	Less than 1 part in 2000.
" 3	"	2552	Jos. Langlois, Arnaugh- nesme No. 1	16	"	"	Trace.	2552	
" 3	"	2555	Arnaugh- nesme No. 1	12	The Montreal Bis- cuit Co., Mont- real.	"	None.	2555	
" 3	"	2556	Arthur Fradet,	1	Viat et Freres, Montreal.	"	"	2556	
" 3	"	2557	"	17	Sugars & Canners, Lad., Montreal.	"	Present.	2557	Less than 1 part in 2000.

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## BULLETIN No. 292—MARSH MALLOWS.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	Results of Analysis.	No. of Samples.	Remarks, and Opinion of the Chief Analyst.
				Quantity.	Cents.					

## DISTRICT OF THREE RIVERS—DR. V. P. LAVALLEE, INSPECTOR.

1914.	Marsh Mallows....	2901	Dame H. Daeharue, St. 1 lb..	30	Viau et Frères, Montreal.	None.	2901	None.		
May 23	"	2902	Felix de Valois, St. Felix 1 "	25	"	Present.	2902	Present.		Less than 1 part in 2000.
" 23	"	2903	de Valois, St. Joliette... 1 "	25	"	"	2903	"		" "
" 25	"	2904	F. Courdhan, Joliette... 3 bss.	45	Novelty Candy Co., Jersey City U.S.A.	None.	2904	None.		" "
" 25	"	2905	M. Stravrus, Joliette... 1 lb..	25	Viau et Frères Montreal.	"	2905	"		

## DISTRICT OF EASTERN TOWNSHIPS—J. C. ROULEAU, INSPECTOR.

June 8	Marsh Mallows....	2141	A. Metayer, Drummondville, 1 lb..	20	Aetna Biscuit Co., Ltd., Montreal.	Present.	2141	Present.		Less than 1 part in 2000.
" 8	"	2142	A. Barrenfau, Actonville 1 "	22	Montreal Biscuit Co., Montreal.	None.	2142	None.		
" 10	"	2143	M. J. Smith, Lac Megantic, 1 "	20	The Mooney Biscuit & Candy Co., Ltd., Montreal.	Present.	2143	Present.		Less than 1 part in 2000.
" 11	"	2144	J. H. Delisle, St. Mala 1 "	20	Viau et Frères, Montreal.	"	2144	"		" "
" 22	"	2145	W. Z. Bisette, Richelieu 1 "	22	Aetna Biscuit Co., Ltd., Montreal.	None.	2145	None.		

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## DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

May 19	Marsh Mallows ..	58376	Olympian Candy Works, 577 St. James Street, Montreal.	1 lb.	20	D. S. Perrin Co., Montreal.	.....	None .....	58376
" 26	" ..	58377	J. A. Demetre, 1191 St. Lawrence Blvd., Mont- real.	1 "	30	Ramsay's, Mont- real.	.....	" .....	58377
" 26	" ..	58378	J. T. Gervais, 553 Mount Royal Avenue East, Montreal.	1 "	20	Vendor .....	.....	" .....	58378
" 26	" ..	58379	Z. Demetre, 111 St. Catherine Street East, Montreal.	1 "	20	Montreal Biscuit Co., Montreal.	.....	" .....	58379
" 26	" ..	58380	St. Denis Ice Cream Par- lors, St. Denis and St. Catherine Sts., Mont- real.	1 "	20	" .....	.....	" .....	58380

## DISTRICT OF VALLEYFIELD—J. J. COSTIGAN ACTING INSPECTOR.

June 18	Marsh Mallows ..	62365	P. Champagne, Chambly Canton.	1 lb.	25	.....	Chocolate coated	None .....	62365
" 18	" ..	62367	" " "	1 "	35	.....	White .....	Present .....	62366
" 18	" ..	62367	A. Brosseau, Chambly Canton.	1 "	20	.....	White and Pink mixed.	" .....	62367

Less than 1 part  
in 2,000.  
" "

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

June 2	Marsh Mallows ..	63436	Wlyte & Raby, Amprior Street, Ottawa.	1 lb.	30	Savoy Candy Co., Toronto.	Manufacturers .....	Trace .....	63436
" 5	" ..	63437	L. Solomon, 585 Bank Street, Ottawa.	1 "	25	McCormick's, Lon- don, Ont.	" .....	None .....	63437
" 5	" ..	63438	B. Palef, 793 Bank St., Ottawa.	3 lbs	30	Rueckhoim Bros. & Eckstein, (Chic- ago, Ill.	Abbot Grant, Brockville.	" .....	63438
" 6	" ..	63439	J. Fox, Fenner, Cornwall.	1 lb.	25	Patterson's, Beant- ford.	Manufacturers .....	Present .....	63439
" 8	" ..	63440	P. Carlotto, Somerset St., Ottawa.	1 "	20	McCormick's, Lon- don.	" .....	Trace .....	63440

Less than 1 part  
in 2,000.

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## BULLETIN No. 292 — MARSH MALLOWS.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the vendor.		Inspector's Report (Is not an expression of opinion).	Results of Analysis.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.				

## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR

1914.	Marsh	61536	N. R. Grimm, Kingston.	1 lb.	40	McCormick Co., London, Ont.	.....	.....	None.....	61536	
May 19	"	61537	G. Athanas, Kingston.	"	20	W. J. Crothers, Kingston.	.....	.....	Trace.....	61537	
" 19	"	61538	P. Johnston, Kingston.	1 "	25	Novelty Candy Co., New York.	.....	M. M. Drops.....	None.....	61538	
" 19	"	61539	T. Sakells, Kingston.	1 "	30	McCormick Co., London, Ont.	.....	.....	".....	61539	
" 19	"	61540	G. Masoud, Kingston.	1 "	30	.....	.....	.....	".....	61540	

## DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

May 26	Marsh	63257	F. W. Woolworth & Co., Ltd., 1688 Dundas St., West Toronto.	$\frac{1}{2}$ "	10	.....	Robertson Toronto.	Toasted.....	Present.....	63257	Less than 1 part in 2,000
" 29	"	63258	F. G. Nixon, 568 Yonge Street, Toronto.	1 "	15	Robertson Toronto.	.....	.....	".....	63258	"
" 29	"	63259	Freimans Ltd., 483 Bloor Street west, Toronto.	1 "	30	"	.....	.....	".....	63259	"
June 1	"	63260	The Patterson Candy Co., Ltd., 751 Queen Street west, Toronto.	1 "	20	Vendors.....	.....	.....	Trace.....	63260	
" 1	"	63263	Savoy Candy Co., Ltd., 362 Bathurst Street, Toronto.	1 "	15	"	.....	.....	None.....	63263	

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## DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.

June 3	Marsh Mallows..	62267	Thomas Moorehead, Brampton.	30 lb.	Wm. Patterson Son & Co., Ltd., Brantford.	None.	62267
" 4	" "	62268	Yeates & Thomas, Guelph	1 "	Vendors	Trace.	62268
" 5	" "	62269	Wm. McEalif & Co., Berlin.	1 "	Rochester Marsh- chester, N.Y.	None.	62269
" 5	" "	62270	Mrs. J. W. Wippers, Berlin.	1 "	Mellow Co., Lon- don.	Present.	62270
" 10	" "	62271	Jersey Cream Factory, 82 McNabb St. North, Hamilton.	1 "	D. S. Perrin, Lon- don.	"	62271
				15 "	Vendors	"	Less than one part in 2,000, " " "

## DISTRICT OF MANITOBA—A. C. LARIVIÈRE, INSPECTOR.

May 26	Marsh Mallows..	61146	Joseph Chaddad, Notre Dame, Winnipeg	20 lb.		Trace.	61146
" 26	" "	61147	McNeill Bros., Sargent & Sherbrooke Winnipeg.	1 "	Dingle & Stewart, Winnipeg.	None.	61147
" 27	" "	61148	Purity Bakery, 485 Por- tage Ave., Winnipeg.	1 "	The W. J. Boyd Co., Ltd., Win- nipeg.	Trace.	61148
" 27	" "	61149	G. Gillan, Portage-la- Prairie.	1 "		None.	61149
" 27	" "	61150	Gould Fruit Store, Por- tage-la-Prairie.	1 "		"	61150

## DISTRICT OF SASKATCHEWAN EAST—JOHN O. SCOTT, INSPECTOR.

May 26	Marsh Mallows..	63759	Walser Bros., Quanelle,	1 lb.	The W. J. Boyd Co., Ltd., Win- nipeg.	None.	63759
" 30	" "	63761	The Colonial, Regina....	3 pcks	Rueckheim Bros. & Eckstein, Chic- ago, U.S.A.	"	63761
" 30	" "	63765	Palace of Sweets, Regina	1 lb.	Patterson's Tor- onto, Ont.	Trace.	63765
" 30	" "	63766	F. F. Fell, Regina. ....	1 "	Rueckheim Bros. & Eckstein, Chic- ago, U.S.A.	None.	63766
June 1	" "	63772	Colonial Grocery, Regina	3 pcks	" " "	"	63772

## BULLETIN No 292—MARSH MALLOWS.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report (Is not an expression of opinion).	Results of Analysis.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
				Quantity.	Cents.					

## DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.

1914.	June 17	Marsh	51996	E. I. Candy Mfg. Co., 1 lb...	20	Vendors....	Toasted	Trace.....	51996	Less than one part in 2,000.
	" 17	"	51997	L. I. Candy Mfg. Co., Ltd., Edmonton.	50	Robertson Bros., Toronto.	"	Present....	51997	
	" 19	"	51998	Hallier & Aldridge, Edmonton.	60	Bunte Bros, Chicago.	"	Trace....	51998	
	" 19	"	51999	Hudson's Bay Co., Calgary.	45	" "	"	None.....	51999	
	" 19	"	52000	G. I. Wood, Calgary.	60	Henry Heides, U.S.A.	"	"	52000	

## DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

	June 18	Marsh	61637	C. B. Hume & Co., Revelstoke, B.C.	40	Rueckheim Bros., & Eckstein, Chicago.	None....	61637	
	" 18	"	61639	Manning Candy Co., Revelstoke, B.C.	40	Vendors....	"	61639	
	" 18	"	61640	G. W. Bell, Revelstoke, B.C.	60	Bunte Bros., Chicago.	"	61640	
	" 18	"	61646	A. Holson, Revelstoke, B.C.	60	Bishop & Co., California.	"	61646	
	July 10	"	61650	Trail Grocery Co., Trail, B.C.	45	Bunte Bros., Chicago.	"	61650	



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## DISTRICT OF VANCOUVER—E. J. MORGAN, INSPECTOR.

June 2	Marsh Mallovs.	55038	The Owl Drug Co., Ltd., Granville and Dunsmin Sts., Vanc., B.C.	1 lb.	35	Unknown.	Clavin Bros. & Leigh, Vancouver, B. C.	Trace.	55038
" 2	"	55039	Mission Confectionery Co., Ltd., 722 Granville St., Vanc., B.C.	1 "	50	Heides, U S.A.	Kirkland & Rose, Vancouver, B.C.	None	55039
" 2	"	55040	Empress Candy Co., 974 Granville St., Vanc., B. C.	1 "	40	Vendors		Trace.	55040
" 2	"	55041	E. S. Knowlton, 15 Hastings St. east, Vanc., B. C.	1 "	60	Rueckheim Bros. & Eckstein, Chicago, U.S.A.	Kelly, Douglas & Co., Ltd., Vancouver, B. C.	None.	55041
" 2	"	55042	White Candy Kitchen, 522 Granville St., Vanc., B. C.	1 "	40	Bunte Bros., Chicago, U.S.A.	Box marked Vanilla Artificial.	"	55042

## DISTRICT OF VICTORIA—D. OSULLIVAN, INSPECTOR.

May 21	Marsh Mallovs.	61925	Oxli H. Ross & Co., 1317 Galt St., Victoria, B. C.	3 pgs	45	Putte Bros., Chicago, Ill.	Strawberry Marsh Mallovs.	None.	61925
" 21	"	61928	L. C. Adams Co., Ltd., Johnson and Douglas Sts., Victoria, B. C.	3 "	60	"		"	61928
" 21	"	61932	Acton Bros., 1317 Douglas St., Victoria, B. C.	1 lb	35		The W. H. Malkin & Co., Ltd., Vancouver, B. C.	"	61932
" 22	"	61941	Dominion Candy Co., 806 Yates St., Victoria, B. C.	1 "	40	Ramsay Bros., Vanc., B. C.		Trace.	61941
" 22	"	61943	Reelon Bros., 1124 Blanchard St., Victoria, B. C.	1 "	75	Vendors		None.	61943

## APPENDIX I.

### BULLETIN No. 293—EVAPORATED APPLES.

OTTAWA, Sept. 29th, 1914.

J. U. VINCENT, Esq.,  
Asst. Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report dealing with one hundred and eighty-four (184) samples of Evaporated Apples, purchased by our inspectors between February and May of this year.

By an Order in Council of 17th October, 1912, effective from 25th November, 1912, Evaporated Apples are required to contain no more than 27 per cent of water. Experience, as recorded in all the literature to which I have had access, and as furnished by inspectors and dealers, shows that a higher percentage of water than this is inconsistent with satisfactory keeping quality. Many of the best samples herein reported contain no more than 20 per cent of moisture, and I am convinced that Evaporated Apples need not, perhaps I should say, ought not, to contain more than 20 per cent of water.

A distinction is usually made between Dried Apples and Evaporated Apples, the first term being applied to the sun-dried or home-dried products; the second, to that resulting from the use of a specially constructed machine, in which heated air is the dessicating medium. It is evident that, especially for our climate, the use of machinery specially devised to hasten the process, and to protect the fruit from dust and flies during its exposure to heated air, is most desirable. Wooden trays or trays of so called 'Agate ware' should be used and not galvanized iron. This latter material has been found to introduce soluble zinc into the product. (See Bull. 48, U. S. Dept. of Agriculture) Canvas bottomed trays are very practicable and possibly the galvanized tray might be found satisfactory if a protecting sheet of canvas were used.

There would seem to be no good reason why the large percentage of our apple crop now allowed to go to waste should not be saved in the form of Evaporated Apples. This article of food is entirely wholesome, if well prepared, and may be very attractive and desirable. It is much better suited to shipment than the fresh apple, and is available after the fresh fruit is no longer on the market.

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Experiments conducted in this laboratory have shown that sliced apples dried at 80°C. (176°F.), for 12 hours lose 84 per cent of their weight; in other words 100 lbs of sliced apples, yield 16 lbs of dried apples, containing 20 per cent of their weight (as dried fruit) of moisture; and that such a product weighs 13-70 lbs per bushel (2218 cubic inches) when moderate pressure is used, as in ordinary packing.

In collaboration with Dr. P. H. Bryce of the Department of the Interior, it was found that apples lose about one-fourth of their weight in the process of paring and coring. Hence a bushel of fresh apples (45 lbs) should yield about 5½ lbs of dried apples containing 20 per cent of their weight of residual moisture.

There exist a special reason for utilization of our apple crop this year, in as much as this fruit is one of the best anti-scorbutics and our troops in the field will require a certain ration of the kind. The excellent keeping qualities of properly dried apples, together with their ready portability make this food peculiarly suitable for the purpose suggested; and, with such an object in view it might be well to reduce the residual moisture considerably below even 20 per cent.

So far as the present report is concerned, the samples covered by it may be classified as follows:—

SATISFACTORY as containing not more than 27 per cent water and being fairly sound and clean.	}	147	samples.
UNSATISFACTORY as containing more than the legal limit of moisture.	}	19	"
" for other reasons.	}	11	"
DOUBTFUL as not meeting requirements for soundness or cleanliness.	}	7	"
Total.		184	samples.

Of 19 samples containing excess of water, 7 contain 30 per cent or more, and are certainly too moist to pass unchallenged.

Through the kindness of the Veterinary Director General, I have been permitted to study the advance sheets of a report on the subject of Evaporated Apples, about to be published by the Department of Agriculture. I have been so impressed with the importance of the work done by the Officials concerned with the administration of the Inspection Acts, that I have asked to be allowed to use the following summaries :

The Report in question deals with two hundred (200) samples of Evaporated Apples and apple waste in which the moisture content was determined, and observation made of the soundness or otherwise of the fruit. The following percentages of moisture were found :

	Evaporated Apples.	Evaporated Chop.	Evaporated Waste.
Above 35 per cent moisture.....	7 samples.	none.	none.
33 to 35 " " .....	7 "	" "	" "
30 to 33 " " .....	15 "	" "	10 samples.
28 to 30 " " .....	15 "	" "	6 "
25 to 28 " " .....	15 "	1 samples.	1 "
22 to 27 " " .....	33 "	2 "	4 "
20 to 25 " " .....	21 "	9 "	24 "
20 to 22 " " .....	18 "	none.	none.
Less than 20 " " .....	5 "	" "	7 "
Total.....	136 samples.	12 samples.	52 samples.

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One hundred and thirty-five (135) samples were found to be satisfactory from the point of view of soundness. Of this number only sixteen (16) samples contain above 27 per cent of moisture, a striking confirmation of the generally accepted belief that 27 per cent of moisture is a maximum amount, if Evaporated Apples are to be kept in sound condition.

Sixty-five (65) of the samples are more or less fermented. These are classed as below :

1.—Slightly fermented .....	15 samples.
2.—Decidedly fermented .....	29 "
3.—Strongly fermented and practically rotten .....	21 "
Total... ..	65 samples.

An examination of the moisture content gives the following results:—

	Slightly fermented.	Decidedly fermented.	Rotten.
Less than 20 per cent moisture .....	1 sample.	none.	none.
20 to 22 " " .....	none.	"	"
22 to 24 " " .....	none.	"	1 samples.
24 to 26 " " .....	3 samples.	2 samples.	1 "
26 to 28 " " .....	4 "	3 "	none.
28 to 30 " " .....	4 "	7 "	2 samples.
30 to 32 " " .....	3 "	10 "	3 "
32 to 34 " " .....	none.	5 "	4 "
34 to 36 " " .....	"	1 "	7 "
36 to 38 " " .....	"	none.	1 "
Above 38 " " .....	"	1 samples.	2 "
Total.....	15 samples.	29 samples.	21 samples.

It will be seen that all samples, with exception of two, which were in any degree decayed, contain above 24 per cent of moisture ; and that, up to a content of 28 per cent, only 15 samples out of 65 were found fermented ; in other words 50 samples out of 65 fermented, contained above 28 per cent of moisture. This seems to point to the fact that a safe maximum content for water in Evaporated Apples, must be found below 28 per cent.

Mr. R. J. Graham, of the Graham Co., Ltd., Belleville, addressed a circular letter to most of the men engaged in this industry in Canada, as follows :

BELLEVILLE, ONT., March 6th, 1914.

DEAR SIR :—

We have been discussing with the Government officials the advisability of reducing the percentage of moisture that is now permitted in Evaporated Apples, namely from 27 to 25 per cent. We have been testing the factories, and the Government have also been testing them from samples taken during the season. We believe it would be in the interest of all manufacturers to co-operate with the Government in reducing the moisture to a maximum of 25 per cent in order that the goods will carry in sound condition and keep sound during the summer months. Unless there is united effort on behalf of the manufacturers, and a petition signed, legislation of this kind will not be enacted the present season. We have found that good keeping quality should not contain more than 22 per cent of moisture, and unless the consumer has some guarantee that the goods will remain in sound condition until consumed, we shall lose the trade which we have now

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and which is materially less than it used to be. Say by return mail if you would sign such a petition.

Yours truly,

(Sgd. R. J. GRAHAM,  
*President.*

Later Mr. Graham writes of his experience ;

"There has been no unfavorable comment, and most of the manufacturers who have replied are in hearty sympathy with the movement.

We all realize the vital importance of manufacturing goods that will keep in sound condition until consumed, and it has only been made damp to meet the competition of low prices. Every manufacturer recognizes that the goods would be better if made drier, but has been forced to make them as heavy as possible in order to meet competitive price. The result of this has been disastrous to the trade."

Information received from the largest handlers of Evaporated Apples in New York is to the following effect :—

"Regarding the percentage of moisture in Evaporated Apples :

When the present law was passed in New York State which fixed 27 per cent of moisture as the extreme limit permitted in evaporated or dried apples, no legislation in that direction had previously been attempted and although the limit of 27 per cent finally decided upon, had only been fixed after a number of analyses of different parcels of Evaporated Apples, it was still to a certain extent more or less of an experiment.

The law has undoubtedly been of great benefit and has eliminated some of the more flagrant abuses, but we believe it is now generally recognized that it did not go far enough. Experience has since pretty clearly shown that apples containing as much as around 27 per cent of moisture are not safe to carry under ordinary circumstances and that as a matter of fact, there are too many people, evaporators as well as dealers who consider the 27 per cent of moisture not as simply the extreme limit of moisture permitted, but rather a regular standard for Evaporated Apples. The general consensus of opinion now is, therefore, that the moisture limit was placed too high at 27 per cent and there is a movement afoot to try to have the law changed, making the limit 25 per cent instead of 27 per cent."

It will be noted that all information obtained in regard to this matter, whether by correspondence or by experiment, tends to show that 27 per cent of moisture in Evaporated apples is too high a limit if good keeping quality is to be assured. I am strongly of opinion that 25 per cent should be made a legal maximum ; and that Evaporated Apples containing no more than 20 per cent of moisture should be preferred.

I beg to advise publication of this report as Bulletin No. 293.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

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BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1914.							
May	8 Evaporated Apples.	53951	A. L. Doyle & Co., Halifax, N.S.	1½ lb.	23	Johnston Bros., Forest, Ont.	Payzant & King, Halifax, N.S.
"	11 "	53952	Wm. Moore, Halifax, N.S.	1½ "	18	Graham & Co., Belleville, Ont.	Unknown
"	11 "	53953	Corkum & Ritcey, Halifax, N.S.	1½ "	18	C. T. C. Canning, N.S.	Morrison & Williams, Halifax, N.S.
"	12 "	53954	S. Smith & Son, Halifax, N.S.	1½ "	21	Forsyth Bros., Greenwich, N.S.	Chisholm & Co., Halifax, N.S.
"	13 "	53955	B. H. Dodge & Co., Kentville, N.S.	1½ "	20	Clark & Collier, Oakville, Ont.	R. B. Seeton, Halifax, N.S.
"	13 "	53956	Yerkas, Ltd., Kentville, N.S.	1½ "	20	Unknown	Unknown
"	14 "	53957	Shand Bros., Windsor, N.S.	1½ "	20	Clark & Collier, Oakville, Ont.	R. B. Seeton, Halifax, N.S.
"	18 "	53958	Coleman & Eisener, Dartmouth, N.S.	1½ "	20	Forsyth Bros., Greenwich, Ont.	Chisholm & Co., Halifax, N.S.
"	19 "	53959	E. W. Crease & Son, Halifax, N.S.	1½ "	18	Unknown	A. & W. Smith, Halifax, N.S.
"	19 "	53960	T. J. Brown, Halifax, N.S.	1½ "	23	Reid & Best, Thornbury, Ont.	Jno. Tobin & Co., Halifax, N.S.

## DISTRICT OF NEW BRUNSWICK—

April	11 Evaporated Apples.	50678	D. R. Bedell, N.B.	Andover, 1½ lb.	25	Graham Co., Ltd., Belleville, Ont.	
"	2 "	50683	M. E. Grass, N.B.	Andover, 1½ "	21	Canadian Fruit Growers' Assoc., Nova Scotia.	Jones & Schofield, St. John, N.B.
"	2 "	50684	W. A. Porter, N.B.	Andover, 1½ "	24	Lakeview Evap. Co., Meaford, Ont.	
"	11 "	50685	J. W. McPhail, N.B.	Perth, 1½ "	20	M. Schier, Norwich, Ont.	W. C. Purvis, St. Stephen, N.B.
"	26 "	50686	Puddington, Morrison, Ltd., St. John, N.B.	3 tins.	20	W. W. Chatterton, Grafton, Ont.	
"	20 "	50687	Vanwart Bros., N.B.	St. John, 3 "	20	Mahler Bros., Chatham, Ont.	
"	21 "	50689	Frank E. Williams Co., Ltd., St. John, N.B.	3 "	18	Unknown	Unknown
"	21 "	50690	E. W. Rowley, N.B.	St. John, 3 "	21	Joseph Bigelow, Port Perry, Ont.	
"	23 "	50691	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	20	Jno. A. Holgate & Son, Bowmanville, Ont.	
"	24 "	50692	H. T. Browster, N.B.	Moncton, 3 "	20	M. Schier, Norwich, Ont.	

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## EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

R. J. WAUGH, INSPECTOR.

	P. C.						
.....	24.2	Good...	Sound..	Clean...	.....	53951	Satisfactory.
.....	26.3	" ..	" ..	" ..	.....	53952	"
.....	26.3	" ..	" ..	" ..	.....	53953	"
.....	23.8	" ..	" ..	" ..	.....	53954	"
.....	21.6	Fair...	" ..	" ..	.....	53955	"
.....	24.8	Good...	" ..	" ..	.....	53956	"
.....	22.7	Fair...	" ..	" ..	.....	53957	"
.....	24.5	Good...	" ..	" ..	.....	53958	"
.....	19.0	" ..	" ..	..	Slight trace SO <sub>2</sub> .....	53959	"
.....	28.5	" ..	" ..	" ..	.....	53960	Water content too high.

JNO. C. FERGUSON, INSPECTOR.

.....	28.3	Good...	Sound..	Clean...	.....	50678	Water content too high.
Beaver Brand .....	21.8	" ..	" ..	Fairly clean.	.....	50683	Satisfactory.
.....	25.3	" ..	" ..	Clean...	.....	50684	"
.....	24.1	" ..	" ..	" ..	Slight trace SO <sub>2</sub> .....	50685	"
.....	27.6	" ..	" ..	" ..	.....	50686	Water content high.
.....	21.6	" ..	" ..	" ..	.....	50687	Satisfactory.
Oxford Brand. ....	23.4	" ..	" ..	" ..	.....	50689	"
Choice Evaporated..	31.0	" ..	" ..	" ..	.....	50690	Water content too high.
Prime Evaporated Apples.	21.6	" ..	" ..	" ..	.....	50691	Satisfactory.
Choice Evaporated Apples.	23.4	" ..	" ..	" ..	Slight trace SO <sub>2</sub> ...	50692	"

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BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1914.							
Mar. 9	Evaporated Apples.	56215	Arthur Drolet, 712 Rue St. Valier, Quebec.	1½ lb.	23		Langlois & Paradis
" 9	"	56216	Hamel & Bedard, 728 Rue St. Valier, Quebec.	1½ "	23		Whitehead & Turner.
" 10	"	56217	F. X. Goslin, 207 Rue de la Couronne, Quebec.	1½ "	15		Unknown.....
" 11	"	56218	National Railway, 88 Rue du Pont, Quebec.	1½ "	18		J. B. Renaud.....
" 11	"	56219	L. F. Martel, 64 Rue du Pont, Quebec.	1½ "	18		A. P. Dupuis....
" 12	"	56220	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	1½ "	18	W. V. Schans, Neustadt, Ont.	Unknown.....
" 12	"	56221	R. S. Riverin, 55 Rue de la Couronne, Quebec.	1½ "	23	J. N. Dolman, Ont.	Turcotte & Frere..
" 12	"	56222	W. Cantin, 133 Rue du Pont, Quebec.	1½ "	18	Graham & Co., Belleville, Ont.	"
" 12	"	56223	C. Belanger, 104 Rue du Pont, Quebec.	1½ "	23	Unknown.....	Unknown.....
" 12	"	56224	C. Martel, 49 Rue Artillery, Quebec.	1½ "	18	"	"

## DISTRICT OF EAST QUEBEC—

Mar. 23	Evaporated Apples.	53361	P. Lord, St. Cyrille ...	1½ lb.	15		Gagnon & Garent, Quebec.
" 23	"	53363	A. Lavoie, St. Eugene	1½ "	18		Drouin Frere, Quebec.
" 24	"	53366	O. Carboneau, L'Islet	1½ "	18		N. Rioux, Quebec.
" 24	"	53370	E. Clouthier, Trois Saumon.	1½ "	18		Unknown.....
" 24	"	53371	A. Caron, Trois Saumon.	1½ "	18		Joseph & Cie, Quebec.
" 25	"	53372	A. Morin, St. Jean....	1½ "	18		J. B. Renaud, Quebec.
" 25	"	53373	F. Lavale, St. Jean....	1½ "	18		"
" 25	"	53375	A. Blais, St. Aubert ...	1½ "	18		Whitehead & Turner.
" 25	"	53377	F.O. Lavale, St. Aubert	1½ "	18		Joseph & Cie, Quebec.
" 25	"	53379	A. Robichaud, St. Aubert.	1½ "	18		N. Rioux, Quebec.
" 26	"	53380	F. Belanger, St. Damasse.	1½ "	18		Carier & fils, Levis



## SESSIONAL PAPER No. 14

## EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

## F. X. W. E. BELAND, INSPECTOR.

	p.c.						
.....	19.8	Good.	Sound.	Fairly clean.	Wooden rake tooth..	56215	Doubtful.
.....	29.7	"	"	Clean.	Incipient ferment- ation.	56216	Water content too high.
.....	32.1	Poor.	"	Dirty.	.....	56217	" and otherwise un- satisfactory.
Rose Brand.....	22.0	Fair.	"	Fairly clean.	.....	56218	Satisfactory.
.....	17.2	"	"	"	.....	56219	"
.....	30.4	"	"	"	.....	56220	Water content too high.
.....	15.7	"	"	"	.....	56221	Satisfactory.
.....	17.4	"	"	"	.....	56222	"
.....	28.8	"	"	Clean.	.....	56223	Water content too high.
.....	22.5	Good.	"	"	.....	56224	Satisfactory.

## ALP. PELLETIER, INSPECTOR.

.....	22.6	Good.	Sound.	Clean.	.....	53361	Satisfactory.
.....	26.8	"	"	Fairly clean.	.....	53363	"
.....	18.6	Fair.	Mostly sound.	"	.....	53366	"
.....	35.3	"	"	"	Incipient ferment- ation.	53370	Water content too high.
.....	22.9	"	"	"	.....	53371	Satisfactory.
.....	18.6	"	"	Clean.	.....	53372	"
.....	14.5	"	"	Fairly clean.	.....	53373	"
.....	23.1	"	Sound.	"	.....	53375	"
.....	21.9	"	"	"	.....	53377	"
.....	23.2	"	"	Clean.	.....	53379	"
.....	21.5	"	"	"	.....	53380	"

6 GEORGE V, A. 1916

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ARGENTUILL, TWO MOUNTAINS

1914.							
Mar. 12	Evaporated Apples.	2327	J. Bte. Gougeon, St. Jerome, P.Q.	1½ lb.	18		Hudon & Orsali...
" 12	" ..	2328	H. Gingras, St. Jerome, P.Q.	1½ "	23		Chevalier & Pouliat, Joliette.
" 12	" ..	2329	Ovila Lanjou, St. Jerome, P.Q.	1½ "	18		F. R. Lalor & Co., Montreal.
" 12	" ..	2330	Leandre Paquin, St. Jerome, P.Q.	1½ "	19		" "
" 12	" ..	2331	W. C. Forgette, St. Agathe des Monts.	1½ "	23		Hudon Hebert....
" 12	" ..	2332	Mde. L. W. Brissette, St. Agathe des Monts.	1½ "	23		F. R. Lalor & Co.
" 12	" ..	2333	Noe Forgette, St. Agathe des Monts.	1½ "	20		Hudon & Orsali...
" 12	" ..	2334	R. Tonchette, St. Agathe des Monts.	1½ "	19		S. J. Carter.....
" 12	" ..	2335	D. Hetu, St. Agathe des Monts.	1½ "	18		L. Chaput Fils & Cie.

## DISTRICT OF QUEBEC—

Mar. 24	Evaporated Apples.	2501	Cleophas Beaudoin. ....	1½ lb.	18		Gagnon & Garent Ltd., Quebec.
" 24	" ..	2507	J. W. Langlois .....	1½ "	18		Turcotte Frere & Cie., Quebec.
" 24	" ..	2510	Pierre Godbout.....	1½ "	18		A. Carrier & Fils Levis.
" 24	" ..	2515	Michel Lacroix .....	1½ "	15		Turcotte Frere & Cie., Quebec.

## DISTRICT OF THREE RIVERS—

Mar. 11	Evaporated Apples.	60931	G. H. Read, St. Felix de Valois.	1½ "	15		Chaput et Fils, Montreal.
" 11	" ..	60932	Henri Ducharme, St. Felix de Valois.	1½ "	15		Jos. Dufresne, Joliette.
" 11	" ..	60933	W. Brissette, St. Felix de Valois.	1½ "	18		Chevalier & Pouliot, Joliette.
" 11	" ..	60934	Albert Bellerose, St. Felix de Valois.	1½ "	20		" "
" 12	" ..	60935	Ulric Desrochers, St. Gabriel de Brandon.	1½ "	18		Chevalier & Magnan, Joliette.
" 13	" ..	60936	C. Barette, Joliette....	1½ "	18	Lakeview Evap. Co., Meaford, Ont.	
" 14	" ..	60937	Magnan Freres, Joliette	1½ "	18	Mahler, Forest, Ont.	
" 13	" ..	60938	J. A. Boisvert, Joliette.	1½ "	18	Glapp Littlejoin, Dutton, Ont.	
" 13	" ..	60964	A. Chartier, Joliette ..	1½ "	18	O. W. Chatterson, Brighton, Ont.	
" 13	" ..	60965	Dechene & Picard, Joliette.	1½ "	20	Lakeview Evap. Co., Meaford, Ont.	

## SESSIONAL PAPER No. 14

## EVAPORATED APPLES.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

## AND TERREBONNE—N. CADIEUX, INSPECTOR.

	p.c.						
.....	25.4	Good.	Sound.	Clean.	.....	2327	Satisfactory.
.....	22.2	Fair.	"	"	.....	2328	"
.....	29.6	Good.	"	"	.....	2329	Water content too high.
.....	21.6	"	"	"	.....	2330	Satisfactory.
.....	20.0	"	"	"	.....	2331	"
.....	13.7	"	"	"	.....	2332	"
.....	22.6	"	"	"	.....	2333	"
.....	28.0	"	"	"	.....	2334	Water content high.
.....	20.4	"	"	"	.....	2335	Satisfactory.

## O. BROCHU, TEMPORARY INSPECTOR.

.....	8.7	Poor.	Mostly sound.	Fairly clean.	.....	2501	Doubtful.
.....	8.5	"	Sound.	Clean.	.....	2507	"
.....	8.5	"	"	Fairly clean.	.....	2510	"
.....	8.7	"	"	Clean.	.....	2515	"

## DR. V. P. LAVALLEE, INSPECTOR.

.....	11.2	Fair.	Sound.	Fairly clean.	.....	60931	Satisfactory.
.....	21.6	"	"	"	.....	60932	"
.....	22.0	"	"	"	.....	60933	"
.....	19.6	Good.	"	Clean.	.....	60934	"
.....	25.7	"	"	"	.....	60935	"
.....	14.1	"	"	"	.....	60936	"
.....	16.2	"	"	"	.....	60937	"
.....	22.8	"	"	"	.....	60938	"
.....	15.4	Fair.	"	"	.....	60964	"
.....	19.3	"	"	"	.....	60965	"

6 GEORGE V, A. 1916

BULLETIN No. 293

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, As given by the Vendor.	
				Quantity	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF EASTERN TOWNSHIPS—

1914.							
Mar. 24	Evaporated Apples.	60891	A. Petit, Roxton Falls.	1½ lbs.	20	Mahler Bros., Dresden, Ont.	
Apr. 29	"	60892	L. S. Biron, Drummondville.	1½ "	18	L. S. Tower, Rose Wayne Co., N.Y.	
" 29	"	60393	Gilmour & Girard, Waterloo, P. Q.	1½ "	20	W. H. Benson, Picton, Ont.	
" 30	"	60894	Alf. Daurais, Upton.	1½ "	18	Clark, Longwell, Bowmanville, Ont.	
May 1	"	60895	Fred. J. Verrill, Melbourne.	1½ "	18	R. J. Graham, Belleville.	
" 18	"	60896	G. Brousseau, St. Hyacinthe.	1½ "	18	" "	
" 18	"	60897	Pierre Levesque, St. Hyacinthe.	1½ "	18	W. V. Shaw, Port Hope.	
" 18	"	60898	Alf. Gervais, St. Hyacinthe.	1 lb.	12		E. Lafrance, St. Hyacinthe.
" 18	"	60899	Pierre Racine, St. Hyacinthe.	1 "	15		" "
" 18	"	60900	F. X. Leblanc, St. Hyacinthe.	1 "	10		J. Ward & Co., Montreal.

## DISTRICT OF MONTREAL—

Mar. 25	Evaporated Apples.	62431	C. Lariviere, 810 Charlevoix St., Montreal.	1½ lbs.	18		Unknown.....
" 25	"	62432	Pelleciner Bros., 150 Manufacturer St., Montreal.	1½ "	18		L. Chaput, Fils et Cie.
" 25	"	62433	J. A. Seguin, 184 Ropery St., Montreal.	1½ "	18		Unknown.....
" 26	"	62434	M. Coursol, 465 Grand Trunk St., Montreal.	1½ "	20		Laporte Martin & Cie.
" 26	"	62435	E. Boursier, 57 Laprairie St., Montreal.	1½ "	15		Unknown.....
" 26	"	62436	Boisvert Freres, 364 Hibernia St., Montreal.	1½ "	18		Bergeron Whissell & Co.
" 26	"	62437	G. Guibard, 118 Island St., Montreal.	1½ "	18		Laporte Martin & Cie.
" 27	"	62438	Joseph Dzyndzyripty, 233 Centre St., Montreal.	1½ "	18		M. Lavut & Son..
" 27	"	62439	Paul Malevitz, 235 Centre St., Montreal.	1½ "	18		Unknown.....
" 27	"	62440	Martin & Labeau, 256 Centre St., Montreal.	1½ "	20		L. Chaput, Fils & Cie.

## SESSIONAL PAPER No. 14

## EVAPORATED APPLES.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

## J. C. ROULEAU, INSPECTOR.

	p. c.						
.....	21.1	Good.	Sound.	Clean.	.....	60891	Satisfactory.
.....	20.9	"	"	"	.....	60892	"
.....	19.8	"	"	"	.....	60893	"
.....	23.0	"	"	"	.....	60894	"
Guaranteed free from	21.9	"	"	"	.....	60895	"
Zinc.....	18.3	"	"	"	.....	60896	"
" ".....	19.3	"	"	"	.....	60897	"
.....	20.5	"	"	"	.....	60898	"
.....	18.1	"	"	"	.....	60899	"
.....	18.6	"	"	"	.....	60900	"

## D. J. KEARNEY, INSPECTOR.

.....	18.0	Good.	Sound.	Clean.	.....	62431	Satisfactory.
.....	15.2	"	"	"	.....	62432	"
.....	20.1	"	"	"	.....	62433	"
.....	19.0	Fair.	"	"	.....	62434	"
.....	21.9	Good.	"	"	.....	62435	"
.....	24.2	Fair.	"	Fairly Clean.	.....	62436	"
.....	20.2	Good.	"	Clean.	.....	62437	"
.....	25.6	Fair.	Mostly sound.	Fairly clean.	.....	62438	"
.....	25.1	"	"	"	.....	62439	"
.....	25.0	"	"	"	.....	62440	"

6 GEORGE V, A. 1916

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VALLEYFIELD—

1914.							
Mar. 18	Evaporated Apples.	62721	A. Foisy, St. John's P.Q.	1½ lb.	15		
" 18	" ..	62722	M. A. Comtois, St. John's, P.Q.	1½ "	20		
" 18	" ..	62723	Hy. Sansouci, St. John's, P.Q.	1½ "	18	W. H. Benson, Picton, Ont.	
" 23	" ..	62724	G. L. E. Guimond, Beauharnois, P.Q.	1½ "	18		
" 23	" ..	62725	J. C. Leonard, Beauharnois, P.Q.	1½ "	20		
" 23	" ..	62726	J. F. Aubert, Beauharnois, P.Q.	1½ "	20		
" 24	" ..	62727	Arthur McLean, Bedford, P.Q.	1½ "	20		
" 24	" ..	62728	D. H. Connor, Bedford, P.Q.	1½ "	20	Homer Read, Meaford, Ont.	
" 24	" ..	62729	Best Bros., Bedford, P.Q.	1½ "	20		
" 24	" ..	62730	C. O. Jones, Bedford, P.Q.	1½ "	20		

## DISTRICT OF OTTAWA—

Mar. 13	Evaporated Apples.	63301	W. H. Dickson, Quyon, P.Q.	1½ lb.	18		F. J. Castle Co. Ottawa.
" 16	" ..	63302	Williams & Vanluven, Smith's Falls.	1½ "	19		Robertson, Nicolle, Smith's Falls.
" 16	" ..	63303	Baxter & Co., Smith's Falls.	1½ "	20		Geo. Robertson & Son, Smith's Falls.
" 16	" ..	63304	The A. B. Scott Co., Smith's Falls.	1½ "	18		Robertson Nicolle, Smith's Falls.
" 17	" ..	63305	D. J. Gillies, Cornwall.	1½ "	20		Chaput Fils, Montreal.
" 17	" ..	63306	W. H. Gardiner, Cornwall.	1½ "	19	Unknown	Unknown
" 17	" ..	63308	A. E. Rea Co., Ltd., Ottawa.	1½ "	23		Lerner & Son, Ottawa.
" 23	" ..	63309	J. Bambrick, Byward Market, Ottawa.	1½ "	15		Unknown
" 23	" ..	63310	Peter Devine, Byward Market, Ottawa.	1½ "	15		J. Moyneur, Ltd., Ottawa.
" 25	" ..	63330	P. J. Glavey, Byward Market, Ottawa.	1½ "	20		H. N. Bate & Sons, Ottawa.

## SESSIONAL PAPER No. 14

## EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

J. J. COSTIGAN, ACTING INSPECTOR.

	p. c.						
.....	23.2	Good.	Sound.	Clean.	.....	62721	Satisfactory.
.....	18.4	Fair.	"	"	.....	62722	"
.....	22.3	"	Mostly sound.	"	.....	62723	"
.....	30.0	"	Sound.	Fairly clean.	Incipient ferment- ation.	62724	Water content too high.
.....	26.3	Good.	"	Clean.	" " ..	62725	Unsatisfactory.
.....	23.6	"	"	"	.....	62726	Satisfactory.
.....	29.2	Fair.	"	Fairly clean.	Incipient ferment- ation.	62727	Water content too high.
.....	25.9	"	"	Clean.	" " ..	62728	Unsatisfactory.
.....	18.6	"	Mostly sound.	Fairly clean.	.....	62729	Satisfactory.
C. and L. Brand....	23.3	"	Sound.	Clean.	.....	62730	"

J. A. RICKEY, INSPECTOR.

.....	21.4	Fair.	Sound.	Clean.	.....	63301	Satisfactory.
.....	26.7	Good.	"	"	Incipient ferment- ation.	63302	Unsatisfactory.
.....	17.6	"	"	"	.....	63303	Satisfactory.
.....	20.7	"	"	"	.....	63304	"
.....	24.0	Fair.	"	"	.....	63305	"
.....	19.5	Good.	"	"	.....	63306	"
.....	23.6	Fair.	"	"	.....	63308	"
.....	21.0	Good	"	"	.....	63309	"
.....	24.6	Fair.	"	"	.....	63310	"
.....	20.7	"	"	Fairly clean.	.....	63330	"

6 GEORGE V, A. 1916

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF KINGSTON—

1914.							
Mar. 12	Evaporated Apples.	60077	P. A. Haffner, Kingston.	1½ lb.	20	.....	Geo. Robertson & Son, Kingston.
" 12	" ..	60078	C. H. Pickering, Kingston.	1½ "	20	.....	Robertson, Nicolle & Co., Kingston.
" 12	" ..	60079	Anderson Bros., Kingston.	1½ "	20	.....	W. G. Craig & Co., Kingston.
" 12	" ..	69080	H. A. Smith, Kingston.	1½ "	20	.....	Geo. Robertson & Son, Kingston.
" 12	" ..	60081	J. D. Redmond, Kingston.	1½ "	15	.....	J. Redden Co., Kingston.
" 12	" ..	60082	E. S. Suddard, Kingston.	1½ "	20	.....	Geo. Robertson & Son., Kingston.
" 13	" ..	60083	D. Couper, Kingston...	1½ "	20	.....	Geo. Robertson & Son, Kingston.
" 13	" ..	60084	J. Redden & Co., Kingston.	1½ "	20	.....	R. J. Carson, Kingston.
" 16	" ..	60085	F. Rosevear, Port Hope.	1½ "	20	.....	PerkingInce & Co., Peterborough.
" 16	" ..	60086	W. J. Roulty, Peterborough.	1½ "	20	.....	W. Davies, Toronto.

## DISTRICT OF TORONTO—

Mar. 21	Evaporated Apples.	62167	John Fell, 731 Broadview Ave., Toronto.	1½ lb.	20	J. P. Langdon, Lucan.	.....
" 21	" ..	62168	The T. Eaton Co., Ltd., Toronto.	1½ "	15	.....	J. Innis .....
" 21	" ..	62169	The Robt. Simpson Co., Ltd., Toronto.	1½ "	15	.....	Unknown ....
" 23	" ..	62170	Brown Bros., 592 Queen st. west., Toronto.	1½ "	20	.....	The Davidson Hay Co., Ltd., Toronto.
" 24	" ..	62171	T. J. Medland, 132 King st. east, Toronto.	1½ "	18	J. F. Langdon, Lucan.	.....
" 24	" ..	62172	J. Conway & Co., 199 Dundas st. west., Toronto.	1½ "	18	Mahler Bros., Forest.	.....
April 2	" ..	62173	Michie & Co., Ltd., 7 King st. w., Toronto.	1½ "	23	.....	Unknown .....

## DISTRICT OF HAMILTON—

April 14	Evaporated Apples.	63261	Peebles Hobson Co., Ltd., Hamilton, Ont.	1½ lb.	19	Binder & Harrison, Kincardine.	.....
" 29	" ..	63262	J. H. Marshall, 101 Queen st., Niagara Falls.	1½ "	20	" ..	.....

## DISTRICT OF WINDSOR—

Mar. 9	Evaporated Apples.	53619	F. McDougall, Ingersoll	3 tins.	15	E. O. Robinson & Co., Ingersoll.	.....
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## SESSIONAL PAPER No. 14

## EVAPORATED APPLES.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

## JAMES HOGAN, INSPECTOR.

	p.c.						
.....	18.6	Fair.	Sound.	Fairly clean.	.....	60077	Satisfactory.
.....	17.9	"	"	"	.....	60078	"
.....	19.1	Good.	"	Clean.	.....	60079	"
.....	19.1	"	"	"	.....	66080	"
.....	17.6	"	"	"	.....	60081	"
.....	23.3	"	"	"	.....	60082	"
.....	26.8	"	"	"	.....	60083	"
.....	25.9	"	"	"	Incipient fermenta- tion.	60084	Unsatisfactory.
.....	21.0	Poor.	Mostly Sound.	Fairly clean.	.....	60085	Doubtful.
.....	25.7	Good.	Sound.	Clean.	.....	60086	Satisfactory.

## H. J. DAGER, INSPECTOR.

.....	23.9	Fair.	Sound.	Clean.	.....	62167	Satisfactory.
.....	21.7	Good.	"	"	.....	62168	"
.....	30.1	Fair.	"	Fairly clean.	Incipient fermenta- tion.	62169	Water content too high.
.....	27.5	Good.	"	Clean.	.....	62170	"
.....	28.2	Fair.	"	Fairly clean.	.....	62171	"
.....	19.2	"	"	"	.....	62172	Satisfactory.
.....	27.7	Good.	"	Clean.	.....	62173	Water content high.

## H. J. DAGER, ACTING INSPECTOR.

.....	11.6	Good...	Sound..	Clean...	.....	63261	Satisfactory.
.....	18.5	" ..	" ..	" ..	.....	63262	"

## JNO. TALBOT, INSPECTOR.

.....	24.3	Fair....	Sound..	Clean...	.....	53619	Satisfactory.
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6 GEORGE V, A. 1916

BULLETIN No. 293.—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MANITOBA.—

1914.							
Mar. 12	Evaporated Apples.	53281	Lawrie Bros., Craydon ave., Winnipeg.	1½ lb.	20	.....	.....
" 16	"	53282	Hardy & Buchanan, Pembina st., Winnipeg.	1½ "	20	.....	Richards & Brown, Winnipeg.
" 17	"	53283	J. Paterson, Main st. N., Winnipeg.	1½ "	22	.....	The A. Macdonald Co., Ltd., Winnipeg.
" 17	"	53284	Max. Bryer, 1238 Main st., Winnipeg.	1½ "	15	.....	.....
" 17	"	53285	J. Grant & Co., Notre Dame ave., Winnipeg.	1½ "	20	.....	.....
" 17	"	53286	J. A. McDowell, Sherbrooke st., Winnipeg.	1½ "	20	.....	M. Schier, Arkona, Ont.
" 18	"	53287	A. R. Paterson, Portage ave., Winnipeg.	1½ "	20	L. Mahley & Sons, Strathroy, Ont.	.....
" 18	"	53288	Gadway & Co., Portage ave., Winnipeg.	1½ "	20	"	Campbell Bros. & Wilson, Winnipeg.
" 18	"	53289	John MacMillan, 579 Portage ave., Winnipeg.	1½ "	20	O. E. Robinson & Co., Ingersoll, Ont.	.....
" 18	"	53290	W & D. Mayro, Main st. N., Winnipeg.	1½ "	23	W. H. Benson, Picton, Ont.	The Codville Co., Winnipeg.

## DISTRICT OF SASKATCHEWAN.—

Mar. 26	Evaporated Apples.	63702	V. Putz, Regina.....	1½ lb.	15	Mahler Bros., Ont.	.....
" 30	"	63709	Biggs Bros., Regina....	1½ "	15	The Phillips Co., Redversville, Ont.	.....
" 30	"	63715	Crown Grocery, Regina.	1½ "	15	"	.....
" 30	"	63718	The Colonial Grocery, Regina.	1½ "	25	"	.....
" 30	"	63721	S. B. Yerxa, Regina...	1½ "	25	Mahler Bros., Dresden, Ont.	.....
" 31	"	63722	The Regina Trading Co., Regina.	1½ "	20	"	.....
" 31	"	63727	Haberlack & Schillingra, Sedley.	1½ "	20	Vict. Evap., Norfolk, Ont.	.....
April 1	"	63737	Crown Grocery, Regina	1½ "	25	The Phillips Co., Redversville, Ont.	.....
Mar. 30	"	63716	R. H. Williams & Sons, Regina.	1½ "	20	Lawrie Co., Forest, Ont.	.....
April 1	"	63738	Crown Grocery, Regina	1½ "	Nil.	The Phillips Co., Redversville, Ont.	.....

## SESSIONAL PAPER No. 14

## EVAPORATED APPLES.

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	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

## A. C. LARIVIERE, INSPECTOR.

	p. c.						
.....	20.1	Fair...	Sound	Fairly clean.	.....	53281	Satisfactory.
.....	21.6	Good...	" ..	Clean ..	.....	53282	"
.....	24.5	" ..	" ..	" ..	.....	53283	"
.....	19.5	" ..	" ..	" ..	.....	53284	"
.....	15.8	Fair...	" ..	Fairly clean.	.....	53285	"
.....	20.9	Good...	" ..	Clean...	.....	53286	"
.....	20.3	Fair...	Mostly sound.	" ..	.....	53287	"
.....	17.1	" ..	" ..	Fairly clean.	.....	53288	"
.....	26.1	Good...	Sound..	Clean ..	.....	53289	"
.....	20.6	Fair...	" ..	Fairly clean.	.....	53290	"

## JNO. O. SCOTT, INSPECTOR.

.....	9.2	Fair...	Sound	Fairly clean.	Slight trace SO <sub>2</sub> ....	63702	Satisfactory.
.....	17.2	" ..	" ..	" ..	.....	63709	"
.....	16.0	" ..	" ..	Clean ..	.....	63715	"
.....	20.6	" ..	Slightly decayed	Fairly clean.	.....	63718	Unsatisfactory.
.....	23.9	Good...	Sound..	Clean...	.....	63721	Satisfactory.
.....	24.7	Fair...	Mostly sound.	" ..	.....	63722	"
.....	21.2	Good.	Sound.	" ..	.....	63727	"
.....	17.3	Fair.	Mostly sound.	" ..	.....	63737	"
.....	11.3	Good.	Sound.	" ..	.....	63716	"
.....	17.3	" ..	" ..	" ..	.....	63738	"

6 GEORGE V, A. 1916

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ALBERTA—

1914.							
Mar. 18	Evaporated Apples.	51937	Sprague & Williamson, Medicine Hat.	1½ lb.	23	The Gibb Co., Hamilton.	
" 18	" ..	51938	Taylor Bros., Medicine Hat.	1½ "	20	Town & Case, Clinton, Ont.	
" 18	" ..	51939	Spencer & Todd, Medicine Hat.	1½ "	20	Johnson Bros., Forest, Ont.	
" 19	" ..	51940	H. A. McKillop Co., Lethbridge.	1½ "	20	Wm. Schaus, Clifford, Ont.	
" 19	" ..	51941	Hudsons Bay Co., Lethbridge.	1½ "	20	W. V. Schaus, Clifford, Ont.	
" 19	" ..	51942	Bentley Co. Ltd., Lethbridge.	1½ "	22	Biggs Fruit & Produce Co., Ltd., Burlington, Ont.	
" 21	" ..	51943	Campbell, Wilson & Horne, Calgary.	1½ "	20	Burr & Tuttle, Salmon Point, Ont.	
" 21	" ..	51944	George J. Wood, Calgary.	1½ "	22	Lalor & Company, Oshawa.	
" 23	" ..	51945	J. H. Morris & Co., Edmonton.	1½ "	17	The Gill Co. Ltd., Hamilton.	
" 23	" ..	51946	Henry Wilson, Edmonton.	1½ "	25	W. H. Benson, Picton, Ont.	

## DISTRICT OF ROCKY MOUNTAINS—

Feb. 17	Evaporated Apples.	50079	L. C. Masson, Revelstoke, B.C.	1½ lb.	30	F. R. Lalor & Co., Dunnville, Ont.	
" 17	" ..	50080	Bourne Bros., Revelstoke, B.C.	1½ "	30	Biggs Fruit & Produce Co. Ltd., Burlington, Ont.	
" 17	" ..	50081	C. B. Hume & Co., Revelstoke, B.C.	1½ "	25	Thos. Symington, Nanapace, Ont.	
April 13	" ..	50087	W. J. Woods, Enderby, B.C.	1½ "	25	Badley Canning Co., Talent, Ore.	
" 13	" ..	50091	Polson, Murrin & Speers, Enderby, B.C.	1½ "	30	Balfour, Smye & Co., Hamilton.	
May 2	" ..	61608	Hudson's Bay Co., Nelson, B.C.	1½ "	25	Thos. Symington, Nanapace, Ont.	
" 2	" ..	61609	Bell Trading Co., Nelson, B.C.	1½ "	25	Balfour Smye & Co., Hamilton.	
" 6	" ..	61611	Creston Mercantile Co., Creston, B.C.	1½ "	25		James Turner, Hamilton.
" 12	" ..	61612	Hosmer Industrial Association, Hosmer, B.C.	1½ "	25	The F. R. Lalor Co., Dunnville, Ont.	
" 12	" ..	61618	Bohemian & Russian Store, Hosmer, B.C.	1½ "	25		A. MacDonald, & Co., Fernie, B.C.

## SESSIONAL PAPER No. 14

## EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

## A. W. R. MARKLEY, INSPECTOR.

	p.c.						
.....	16.3	Fair.	Slightly decayed	Fairly clean.	.....	51937	Unsatisfactory.
.....	14.6	Good.	Sound.	Clean.	.....	51938	Satisfactory.
.....	16.0	"	"	"	.....	51939	"
.....	20.7	Fair.	Mostly sound.	"	.....	51940	"
.....	26.4	Good.	Sound.	"	.....	51941	"
.....	16.5	"	"	"	.....	51942	"
.....	22.4	"	"	"	.....	51943	"
.....	21.1	Fair.	"	"	.....	51944	"
.....	26.1	"	"	Fairly clean.	.....	51945	"
.....	15.5	"	"	"	.....	51946	"

## THOS. PARKER, INSPECTOR.

.....	22.1	Good.	Sound.	Clean.	.....	50079	Satisfactory.
.....	20.5	"	"	Fairly clean.	.....	50080	"
.....	27.6	"	"	Clean.	.....	50081	Water content high.
.....	20.1	Fair.	"	"	.....	50087	Satisfactory.
Tartan.....	22.9	Good.	"	"	.....	50091	"
.....	32.3	"	"	"	Incipient fermenta- tion.	61608	Water content to high.
.....	23.8	Fair.	"	"	One worm and nine Beetles.	61609	Unsatisfactory.
.....	20.2	Good.	"	"	.....	61611	Satisfactory.
.....	23.5	"	"	"	.....	61612	"
.....	25.1	"	"	"	.....	61618	"

6 GEORGE V, A. 1916

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, As given by the Vendor:	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VANCOUVER—

1914.							
Mar. 31	Evaporated Apples.	54997	H. A. Edgett Co., Ltd., Vanc. B. C.	1½ lbs.	25	Unknown .....	Leeson, Dickie, Gross & Co., Ltd. Vanc. B. C.
" 31	" ..	54998	Woodward Dept. Stores, Vanc. B. C.	1½ "	20	F. R. Labor & Co. Ltd., Dunnville, Ont.	.....
Apr. 17	" ..	54999	Swindell Bros., 1417 Commerical Drive, Vanc. B. C.	1½ "	25	Unknown .....	The W. H. Malkin, Co., Ltd., Vanc. B. C.
" 17	" ..	55000	King Grocery Co., 950 Commercial Drive, Vanc. B. C.	1½ "	25	F. R. Lalor Co., Ltd., Dunnville, Ont.	.....
" 17	" ..	55001	False Creek Grocery, 799 Keefer St., Vanc. B. C.	1½ "	25	" "	.....
" 21	" ..	55002	Annandale Supply Co., Columbia St., New Westminster, B. C.	1½ "	25	" "	.....
" 21	" ..	55003	C. A. Welsh Ltd., New Westminster, B. C.	1½ "	25	" "	.....
" 21	" ..	55004	Larsen & Aune, 601 Front St., New West- minster, B. C.	1½ "	25	" "	.....
" 22	" ..	55005	W. H. Walsh, Seymour & Davie Sts., New Westminster, B. C.	1½ "	20	Guggenheim & Co., California.	Kelly, Douglas & Co., Ltd., Vanc. B. C.
" 22	" ..	55006	The Webster Bros., Ltd., 1275 Granville St., New Westminis- ter, B. C.	1½ "	20	F. R. Lalor Co., Ltd., Dunnville, Ont.	.....

## DISTRICT OF VICTORIA—

Mar. 12	Evaporated Apples.	57775	C. F. Wood, 971 Yates St., Victoria, B. C.	1½ lbs.	20	.....	.....
" 13	" ..	57781	Acton Bros., 1317 Doug- las St., Victoria, B. C.	1½ "	25	.....	Simon Leiser & Co. Ltd., Victoria, B. C.
" 13	" ..	57783	Windsor Grocery Co., 817 Govt. St., Vic- toria, B. C.	1½ "	25	California Fruit, Canner's Associ- ation, San Fran- cisco, Cal.	.....
" 13	" ..	57784	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B. C.	1½ "	25	.....	R. P. Rithet & Co. Ltd., Victoria B. C.
" 13	" ..	57787	Copas & Young, 633 Fort St., Victoria, B. C.	1½ "	25	.....	" "
" 13	" ..	57788	Copas & Young, 633 Fort St., Victoria, B. C.	1½ "	25	.....	" "

## SESSIONAL PAPER No. 14

## EVAPORATED APPLES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

## E. J. MORGAN, INSPECTOR.

	p. c.						
.....	20.8	Good.	Sound.	Clean.	.....	54997	Satisfactory.
.....	20.4	"	"	"	.....	54998	"
.....	22.4	"	"	"	.....	54999	"
.....	24.6	"	"	"	.....	55000	"
.....	20.7	"	"	"	.....	55001	"
.....	21.5	"	"	"	Very slight trace SO <sub>2</sub>	55002	"
.....	25.4	"	"	"	.....	55003	"
.....	24.9	"	"	"	.....	55004	"
Box marked "contains Sulphur Dioxide."	20.6	Fair.	"	"	Slight trace SO <sub>2</sub>	55005	"
.....	23.5	Good.	"	"	.....	55006	"

## D. O. SULLIVAN, INSPECTOR.

.....	23.5	Good.	Sound.	Clean.	.....	57775	Satisfactory.
.....	25.2	Fair.	Mostly sound.	Fairly clean.	.....	57781	"
Ora Brand	23.8	"	Sound.	"	.....	57783	"
.....	22.8	"	Mostly sound.	"	.....	57784	"
.....	25.0	Good.	Sound.	Clean.	Heavy trace SO <sub>2</sub>	57787	Excess sulphurous acid, otherwise satisfactory.
.....	25.9	"	"	"	.....	57788	Doubtful. Satisfactory.

6 GEORGE V, A. 1916

BULLETIN No. 293—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, As given by the Vendor.	
				Quantity.	Cost.	Manufacturer.	Furnisher.

## DISTRICT OF VICTORIA—

1914.									
Mch. 17	Evaporated Apples.	57789	Dixie H. Ross & Co., 1317 Govt. St., Victoria, B. C.	1½ lbs.	25	Norfolk Preserving Co., Simcoe, Ont.			
" 17	" ..	57792	H. O. Kirkham, 741 Fort St., Victoria, B. C.	1½ "	25	Unknown . . . .	Unknown . . . . .		
" 17	" ..	57795	Ersikine & Co., 861 Johnston St., Victoria, B. C.	1½ "	25	California Fruit & Canner's Association, San Francisco, California.			
" 17	" ..	57799	C. H. Barrington, 1422 Fort St., Victoria, B. C.	1½ "	25	F. R. Lalor & Co., Ltd., Dunnville, Ont.			



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## EVAPORATED APPLES.

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	Moisture.	Quality.	Soundness.	Cleanliness.	Found.		

*Concluded.*

	p. c.						
.....	21.5	Poor.	Mostly Sound.	Not Clean.	Three beetles.....	57789	Unsatisfactory.
.....	21.0	Fair.	"	Clean.	Two beetles.....	57792	"
.....	23.2	Poor.	"	Fairly Clean.	One dead beetle....	57795	"
.....	25.4	"	"	Not Clean.	Three worms.....	57799	"

## APPENDIX J.

## BULLETIN No. 294—OLIVE OIL AND SALAD OIL.

OTTAWA, October 13, 1914.

J. U. VINCENT, Esq.,  
Deputy Minister of Inland Revenue.

SIR—I beg to hand you a report upon 114 samples of Edible Oil, sold as Salad Oil or as Olive Oil, to our inspectors during the past summer.

An Order in Council, dated March 28, 1912, defines Olive Oil and Cotton Seed Oil, as these articles are sold for food purposes. There is no question of the wholesomeness of Cotton Seed Oil when properly refined, and it may be sold either by itself or in a mixture with Olive Oil, provided that the label plainly declares its presence.

The substitution of Cotton Seed Oil for Olive Oil without declaration, constitutes adulteration under Section 3 (b) of the Act, which states as follows: "Food shall be deemed to be adulterated within the meaning of this Act, if any inferior or cheaper substance has been substituted wholly or in part for the article."

The experience of our inspectors shows that Olive Oil is coming more and more into use in Canada, and the purchaser of a Salad Oil usually understands that he is buying Olive Oil. I am informed that the trade recognizes the terms *Salad Oil* and *Union Salad Oil* as distinguishing between Olive Oil and Cotton Seed Oil. It is probable that the word *Union* has regard to the United States as a source of the article, rather than to a mixture of oils, since the Southern United States is the chief producer of Cotton products. It is usual for Olive Oil to be labelled in French or Italian, since France and Italy are among the chief producers of Olive Oil, and appear to furnish most of that supplied to Canada. Recognizing these facts it gives cause for suspicion when we find Cotton Seed Oil carrying French labels and purporting to have a French origin. Not only does it suggest purposeful deception, but it makes us suspicious that the name of the manufacturer may be wholly fictitious. I think it not unreasonable that we should be in a position to require wholesale dealers to prove the *bona fide* character of information stated or implied on labels of the kind referred to, i.e., where

## SESSIONAL PAPER No. 14

the fact that a label states or implies a foreign origin amounts to a claim for quality in the goods. Salad Oil is such a case, but Wines, Brandies, Gins, Liqueurs, etc., offer opportunities for similar deception.

The results of the present inspection may be summarized as below :—

Genuine Olive Oil.....	85 samples
Cotton Seed Oil, declared as such.....	16 “
Adulterated under the Act .....	11 “
Doubtful .....	1 “
Lost by breakage .....	1 “
Total.....	<hr/> 114 samples <hr/>

I beg to recommend publication of this report as Bulletin No. 294.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

6 GEORGE V, A. 1916

BULLETIN No. 294—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cost.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1914.							
July	8 Olive Oil.	41861	Corkum & Ritcey, Halifax, N.S.	3 bots.	45	Unknown.....	Purnell & Panter, England.
"	8 " "	41862	A. & W. Smith, Halifax, N.S.	3 "	54	E. Lazenby & Son, London Eng.	Mfr.....
"	9 " "	41863	Lamont & Steadman, Kentville, N.S.	3 "	45	Crosse & Blackwell, London, Eng.	"
"	17 " "	41864	B. G. Oxner, Lunenburg, N.S.	3 "	70	H. J. Heinz Co., Pittsburg, U.S.A.	Jno. Tobin & Co., Halifax, N.S.
"	31 " "	41865	Wm. Moore, Halifax, N.S.	3 "	60	G. F. Sutton Son & Co., London, Eng.	Mfr.....

## DISTRICT OF NEW BRUNSWICK—

June	8 Olive Oil.	59511	Nat. Drug. and Chem. Co. Ltd., St. John, N.B.	3 bots.	75	Vendors.....	
"	10 " "	59512	G. E. Barbour Co., Ltd., St. John, N.B.	3 "	60	A. Gaillard & fils, Marseille, France.	
"	12 " "	59513	The Canadian Drug Co., Ltd., St. John, N.B.	3 "	100	Schroder, Schylers Co., Bordeaux, France.	
"	23 " "	59514	A. V. Cheechi, St. Stephen, N.B.	1 qt.		V. Cecchi, Leghorn, Italy.	
"	25 Salad Oil.	59515	Geo. T. Whelpley Estate, Fredericton, N.B.	3 bots.	75	E. Lazenby & Son, Ltd., London, Eng.	

## DISTRICT OF QUEBEC—

May	18 Huileolive	56256	T. F. Savard, 1255 Rue St. Valier, Quebec.	3 bots.	1 50	Holbrook & Co., London.	J. B. Renaud.....
"	18 " "	56257	P. E. Kirouack, 1105 Rue St. Valier, Quebec.	3 "	75	Heinz & Co., Ltd. Pittsburg.	Mfrs.....
"	18 " "	56258	Jos. Vézina, 914 Rue St. Valier, Quebec.	3 "	75	H. Desegaulx & Cie, Bordeaux, France.	Myrand & Pouliot..
"	19 " "	56259	J. A. Édard, 728 Rue St. Valier, Quebec.	3 "	1 05	Roy Frère & Fils, Salon, France.	Turcotte & Frère....
"	19 " "	56260	Arthur Drolet, 712 Rue St. Valier, Quebec.	3 "	90	Laporte, Martin, Montreal.	Mfrs.....

## DISTRICT OF EAST QUEBEC—

June	13 Huile à salade.	53395	J. C. Morin, St. Anne.	3 bots.	30		Turcot & Frère, Quebec.
"	13 Huile d'olive.	53396	J. Desjardin, St. Anne.	3 "	2 40		Whitehead & Turner, Quebec.
"	13 " "	53397	Union Agricol, St. Anne.	3 "	2 30	Unknown.....	Unknown .....
"	15 " "	53400	N. Bourchard, Kamouraska.	3 "	90		J. B. Renaud, Quebec.
"	18 Huile à salade.	2485	Jos. Morel, St. Rose du Déglé.	.....	30		Dr. Morin, Quebec..

SESSIONAL PAPER No. 14

## OLIVE OIL AND SALAD OIL

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				Found.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 15.5°C.	Iodine num- ber.	Nitric Acid Colour test.	Halphen colour test.			

R. J. WAUGH, INSPECTOR.

.....	1.4698	.....	Green ..	.....	.....	41861	Genuine olive oil.
Labelled. Pure Luc- ca Olive Salad Oil.	1.4701	.....	" ..	.....	.....	41862	"
.....	1.4700	.....	" ..	.....	.....	41863	"
.....	1.4701	.....	" ..	.....	.....	41864	"
.....	1.4702	.....	" ..	.....	.....	41865	"

JNO. C. FERGUSON, INSPECTOR.

Imported from	1.4702	.....	Green ..	.....	.....	59511	Genuine olive oil.
France.	1.4702	.....	" ..	.....	.....	59512	"
Vestal Brand	1.4701	.....	" ..	.....	.....	59513	"
Finest Lucca Olive	1.4702	.....	" ..	.....	.....	59514	"
Oil.	1.4702	.....	" ..	.....	.....	59515	"

F. X. W. E. BELAND, INSPECTOR.

.....	1.4699	.....	Green ..	.....	.....	56256	Genuine olive oil.
.....	1.4700	.....	" ..	.....	.....	56257	"
.....	1.4702	.....	" ..	.....	.....	56258	"
.....	1.4700	.....	" ..	.....	.....	56259	"
.....	1.4698	.....	" ..	.....	.....	56260	"

ALPH. PELLETIER AND F. X. ROY, INSPECTORS.

.....	1.4740	.....	Brown ..	.....	.....	53395	Cottonseed oil declared.
.....	1.4710	.....	Green ..	.....	.....	53396	Genuine olive oil.
.....	1.4705	.....	" ..	.....	.....	53397	"
.....	1.4705	.....	" ..	.....	.....	53400	"
.....	1.4740	.....	Brown ..	.....	.....	2485	Cottonseed oil declared.

6 GEORGE V, A. 1916

BULLETIN No. 294—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF EAST QUEBEC—

1914.							
June 1	Huile à manger.	2001	Andre Ploude, Mont Carmel.	3 bots.	30	E. Loubon.....	
" 1	Huile à table.	2002	D. J. Desjardine, Mont Carmel.	3 "	3 00	Cartier Neven & Cie., Aix en Provence.	
" 9	Huile d'olive.	2007	L. Union Agricole, St. Paschal.	3 "	1 65	Pect Fils, Aine.....	
" 10	Huile à manger.	2011	George Michaud, St. Alexandre.	3 "	30	E. Loubon.....	
" 11	"	2013	A. S. Thivierge, Rivière du Loup.	3 "	1 50	H. F. Baulle.....	

## DISTRICT OF QUEBEC—

June 10	Huile à salade.	2341	Eug. Lacas, St. Jérôme, P.Q.	3 bots.	30	E. Lubon, Nice ....	
" 10	"	2342	Ovila Lauzon, St. Jérôme, P.Q.	3 "	30	E. Lubon, C. & Cie.	
" 13	Huile d'olive.	2365	Célestin Legar, St. Agathe des Monts.	3 "	30	E. Lubon.....	
" 13	"	2366	Noé Forget, St. Agathe des Monts.	3 "	30	Hudon, Orsale & Cie.	
Aug. 5	"	2383	C. Lavigne, Lachute.	3 "	75	L. A. Price, Bordeaux-Nice, France	
June 3	Huileolive	2538	Tanguay & Cie, St. Margloire.	3 "	30	Carrier & fils, Levis.	
" 3	Huileolive table.	2547	J. A. Lemieux, St. Michel.	3 "	60	Boy Père & Fils, France.	
" 3	Huileolive	2548	Geo. Roy, St. Michel.	3 "	24	Standard Import, Ltd., Montreal.	
" 3	"	2551	Jos. Langlois, Armagh.	3 "	30	The Hervay Chem. O. Bazile.	
" 3	"	2553	Cléophas Beaudoin, Armagh.	3 "	30	E. Loubon.....	

## DISTRICT OF THREE RIVERS—

May 18	Huile à salade.	60996	Hornidas Masse, Joliette.	3 bots.	30	Standard Imports, Montreal.	
" 19	"	60997	Magnan Frères, Joliette.	3 "	30	E. Loubon, Nice ...	
" 19	Olive oil.	60998	C. Barrette, Joliette.	3 "	54	L. A Price, Nice et Bordeaux.	
" 20	Huile à salade.	60999	J. A. Bellerose, St. Félix de Valois.	3 "	30	E. Loubon, Nice ...	
" 20	"	61000	W. Brissette, St. Félix de Valois.	3 "	30		

## SESSIONAL PAPER No. 14

## OLIVE OIL AND SALAD OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				Found.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 15.5°C.	Iodine num- ber.	Nitric Acid Colour test.	Halphen Colour test.			

*Concluded.*

.....	1.4750	.....	Brown..	.....	.....	2001	Cotton seed oil declared.
.....	1.4750	104	" ..	Red..	Cotton seed oil....	2002	Cotton seed oil not speci- fically mentioned. Adul- terated.
.....	1.4708	.....	Green ..	.....	.....	2007	Genuine olive oil.
.....	1.4750	.....	Brown..	.....	.....	2011	Cotton seed oil declared.
.....	1.4705	.....	Green..	.....	.....	2013	Genuine olive oil.

## N. CADIEUX AND O. BROCHU, TEMPORARY INSPECTORS.

.....	1.4742	.....	Brown..	.....	.....	2341	Cotton seed oil declared.
.....	1.4752	.....	" ..	.....	.....	2342	" ..
.....	1.4752	.....	" ..	.....	.....	2365	" ..
.....	1.4742	.....	" ..	.....	.....	2366	" ..
.....	1.4707	.....	Green..	.....	.....	2383	Genuine olive oil.
.....	1.4743	.....	" ..	.....	.....	2538	" ..
.....	1.4710	.....	" ..	.....	.....	2547	" ..
.....	1.4742	.....	Brown..	.....	.....	2548	Cotton seed oil declared.
Labelled Hervay's Salad oil.	1.4740	106	" ..	Red..	Cotton seed oil....	2551	Cotton seed oil not declared. Adulterated.
.....	1.4751	.....	" ..	.....	.....	2553	Cotton seed oil declared.

## DR. V. P. LAVALLÉE, INSPECTOR.

Loubon .....	1.4740	.....	Brown..	.....	.....	60996	Cotton seed oil declared.
Labelled Huile d'o- live vierge.	1.4747	68.5	" ..	Red..	Cotton seed oil....	60997	Cotton seed oil not declared. Adulterated.
Luca .....	1.4709	.....	Green..	.....	.....	60998	Genuine olive oil.
Label shows the word "Coton" in small type.	1.4745	105	Brown..	Red..	Cotton seed oil....	60999	Cotton seed oil declared.
.....	1.4747	.....	" ..	.....	.....	61000	" ..

6 GEORGE V, A. 1916

BULLETIN No 294—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1914.							
June 8	Huile d'olive.	2112	O. F. Piche, Drummondville.	3 bots.	75	.....	Heinz & Co., Leamington, Ont.
" 10	Huile à manger.	2113	T. Cameron, Lac Megantic.	3 "	30	E. Loubon.....	.....
" 10	"	2114	J. J. McLeod, Cookshire	3 "	30	Unknown.....	Unknown.....
" 22	Huile d'olive.	2115	Alph. Ostigny, Richelieu	3 "	1 50	Barton & Guestier, Bordeaux, France.	.....
" 26	"	2116	Thos. Hebert, St. Hyacinthe.	3 "	75	.....	Crosse & Blackwell..
DISTRICT OF MONTREAL—							
May 20	Olive Oil..	58391	A. Schwartz, 921 Mount Royal East Ave., Montreal.	3 bots.	90	.....	The Charles Ciceri Co., Montreal.
" 20	Salad Oil.	58392	Leo. Patenaude, 252 Mount Royal East, Ave., Montreal.	3 "	30	.....	Unknown.....
" 20	Olive Oil..	58393	B. Charbonneau, 340 Mount Royal East, Ave., Montreal.	3 "	75	.....	Couvrette & Saurial, Montreal.
" 20	"	58394	A. Brisebois, 448 Mount Royal East, Ave., Montreal.	3 "	55	.....	Unknown.....
" 20	"	58395	Ed. St. Germain & Co., 591 Mount Royal East, Montreal.	3 "	1 00	.....	".....
DISTRICT OF VALLEYFIELD—							
May 27	Olive Oil..	62350	H. Claprood, St. Johns, P.Q.	3 bots.	90	Adolpe Puget.....	.....
" 29	"	62351	J. G. Leonard, Beauharnois.	3 "	75	.....	.....
" 29	"	62352	O. Marchand, Beauharnois.	3 "	1 05	L. A. Price, France.	.....
" 29	"	62353	Joseph Fortier, Beauharnois.	3 "	75	Heinz.....	.....
" 30	"	62354	Graham & Hunter, St. Lambert.	3 "	75	Biet Fils, Aine.....	.....
DISTRICT OF OTTAWA—							
June 2	Olive Oil.	63441	Jas. MacPherson, Arnprior.	3 bots.	1 20	J. B. & A. Artand Freres, Marseille.	Rose & Laflame, Montreal.
" 5	"	63412	E. C. King, 593 Bank St., Ottawa.	3 "	30	Brunel & Cie, France.	Unknown.....
" 5	"	63443	A. S. Mcleland, Bank St., and 4th Ave., Ottawa.	3 "	1 50	Gorman, Eckert & Co., Ltd., London, Ont.	Mfrs.....
" 6	Salad Oil.	63444	J. G. Kilgour, Cornwall	3 "	45	E. Loubon, Nice....	Unknown.....
" 8	Olive Oil..	63445	W. J. Lanthier, 177 Rochester St., Ottawa	3 "	75	C. H. Dragon, France	".....



## SESSIONAL PAPER No. 14

## OLIVE OIL AND SALAD OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				Found.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 15.5°C.	Iodine num- ber.	Nitric Acid Colour test.	Halphen colour test.			
J. C. ROULEAU, INSPECTOR.							
.....	1.4710	.....	Green	.....	.....	2112	Genuine olive oil.
.....	1.4742	.....	Brown	.....	.....	2113	Cotton seed oil declared.
.....	1.4740	.....	"	.....	.....	2114	" "
.....	1.4703	.....	Green	.....	.....	2115	Genuine olive oil.
.....	1.4705	.....	"	.....	.....	2116	"
D. J. KEARNEY, INSPECTOR.							
"Stella Brand. Fin- est Salad Oil."	1.4740	106	Brown.	Red.	Cotton seed oil....	58391	Cotton seed oil not declared. Adulterated.
.....	1.4740	.....	"	.....	.....	58392	Cotton seed oil declared.
.....	1.4702	.....	Green	.....	.....	58393	Genuine olive oil.
.....	1.4700	.....	"	.....	.....	58394	"
.....	1.4701	.....	"	.....	.....	58395	"
J. J. COSTIGAN, ACTING INSPECTOR.							
.....	1.4702	.....	Green	.....	.....	62350	Genuine olive oil.
Minerva Brand.....	1.4703	.....	"	.....	.....	62351	"
.....	1.4703	.....	"	.....	.....	62352	"
.....	1.4707	.....	"	.....	.....	62353	"
.....	1.4706	.....	"	.....	.....	62354	"
J. A. RICKEY, INSPECTOR.							
Surfine Clarifie....	1.4705	.....	Green	.....	.....	63441	Genuine olive oil.
Guaranteed Pure....	1.4704	.....	"	.....	.....	63442	"
Club House Pure Olive Oil.	1.4705	.....	"	.....	.....	63443	"
Labelled Huile à Salade Extra.	1.4740	106	Brown.	Red.	Cotton seed oil....	63444	Cotton seed oil not declared. Adulterated.
"Maltese Cross" Brand. Guar- anteed Absolutely Pure.	1.4707	.....	Green	.....	.....	63445	Genuine olive oil.

6 GEORGE V, A. 1916

BULLETIN No. 294—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF KINGSTON—

1914.							
May 20	Olive Oil.	61511	D. E. Blecker, Belleville	3 bots.	75	Nat. Drug Co., Toronto.	.....
" 20	"	61512	W. H. Lattimer, Belleville.	3 "	1 05	"	.....
" 20	"	61513	The Belleville Pharmacy, Belleville.	3 "	75	.....	N. C. Polson & Co., Kingston.
" 20	"	61514	W. J. B. Davison, Port Hope.	3 "	1 50	A. Gaillard & Fils, Marseilles, France.	.....
" 21	"	61515	Nugent Drug Co., Peterboro.	3 "	75	.....	D. M. Ninicola, Peterboro.

## DISTRICT OF TORONTO—

May 26	Salad Oil.	63238	H. Wainwright, 1329 Dundas St., Toronto.	3 bots.	30	E. Loubon, Nice	.....
" 28	Olive Oil.	63239	J. F. Willis, Aurora.	12 ozs.	40	.....	The Drug Trading Co., Ltd., Toronto
" 28	"	63240	W. L. Bosworth, New Market.	3 bots.	45	Holbrook & Co.	Unknown
June 1	Salad Oil.	63256	John Klees, 504 Yonge St., Toronto.	1 bot.	35	.....	Max Ams, New York
" 1	"	63251	T. F. O Riley, 498 Queen East, Toronto.	3 bots.	75	.....	Drug Trading Co., Ltd., Toronto.

## DISTRICT OF HAMILTON—

June 3	Olive Oil.	63289	H. Griffin, Brampton.	3 bots.	75	Federico Garrat Co., Malaga, Spain.	Grocers, Ltd., Toronto.
" 4	Salad Oil.	63290	J. B. Broadfoot, Guelph	12 ozs.	45	.....	.....
" 5	"	63291	A. G. Haehnel, Waterloo, Ont.	12 "	35	.....	.....
" 5	"	63292	E. O. Ritz, Berlin	3 bots.	40	.....	Unknown
" 10	"	63293	Hawkins, Ltd., Barton and East Aves., Hamilton.	3 "	30	.....	.....

## DISTRICT OF WINDSOR—

May 26	Olive Oil.	53676	F. T. Zimmer, Petrolia.	3 bots.	75	.....	Gorman, Eckert & Co., London, Ont.
" 26	"	53681	Jackson & Co., Petrolia	3 "	50	Holbrook & Co.	Drug Trading Co., Toronto.
" 27	"	53686	H. Robertson, Sarnia.	3 "	60	Calliard & Fils, France.	Lyman Drug Co., Toronto.
" 27	"	53688	A. H. Gammon & Son, Sarnia.	3 "	75	Heinz & Co.	.....
" 27	"	53689	Jas. Fraser, Sarnia.	3 "	75	.....	T. Kenny & Co., Sarnia.

SESSIONAL PAPER No. 14

## OLIVE OIL AND SALAD OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				Found.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 15.5°C.	Iodine num- ber.	Nitric Acid Colour test.	Halphen colour test.			

JAS. HOGAN, INSPECTOR.

.....	1.4704	.....	Green..	.....	.....	61511	Genuine olive oil.
.....	1.4700	.....	" ..	.....	.....	61512	"
.....	1.4701	.....	" ..	.....	.....	61513	"
.....	1.4701	.....	" ..	.....	.....	61514	"
.....	1.4703	.....	" ..	.....	.....	61515	"

H. J. DAGER, INSPECTOR.

Labelled Huile à sa- lade Extra.	1.4740	105	Brown .	Red..	Cotton seed oil....	63238	Cotton seed oil not declared. Adulterated.
Sold as Pure Olive Oil.	1.4702	.....	Green..	.....	.....	63239	Genuine olive oil.
Guaranteed Pure....	1.4704	.....	" ..	.....	.....	63240	"
Labelled Klees Salad Oil.	1.4740	110	Brown .	Red..	Cotton seed oil....	63250	Cotton seed oil not declared. Adulterated.
Union Salad Oil ...	1.4740	107	" ..	" ..	" " ..	63251	Labelled " Union Salad Oil." Doubtful.

H. J. DAGER, ACTING INSPECTOR.

Huile d'olive Vierge Extra.	1.4705	.....	Green..	.....	.....	63289	Genuine olive oil.
.....	1.4740	107	Brown .	Red..	Cotton seed oil....	63290	Cotton seed oil not declared. Adulterated.
Labelled Sweet Oil..	1.4740	105	" ..	" ..	" " ..	63291	" ..
" ..	1.4709	.....	Green..	.....	.....	63292	Genuine olive oil.
" ..	1.4740	107	Brown .	Red..	Cotton seed oil....	63293	Cotton seed oil not declared. Adulterated.

JNO. TALBOT, INSPECTOR.

Labelled Club House Pure Olive Oil.	1.4710	.....	Green..	.....	.....	53676	Genuine olive oil.
Labelled Pure Olive Oil.	1.4703	.....	" ..	.....	.....	53681	"
Labelled Sublime Extra Olive Oil.	1.4703	...	" ..	.....	.....	53686	"
Labelled Heinz Pure Olive Oil.	1.4708	.....	" ..	.....	.....	53688	"
Pure Lucca Oil. ....	1.4705	.....	" ..	.....	.....	53689	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MANITOBA--

1914.							
June	8 Olive Oil.	61136	J. A. McKerchar, Main St., Winnipeg.	3 bots.	75	Crosse & Blackwell, London, Eng.	.....
"	8 "	61137	Andrews Drug Store, Logan & Main, Winnipeg.	3 "	75	Smith & Co., London	.....
"	8 "	61138	" " "	3 "	105		.....
"	9 "	61139	Walter Fee, Logan Ave., Winnipeg.	3 "	75	Crosse & Blackwell, London, Eng.	.....
"	10 "	61140	E. Davies, Transcona.	3 "	75	Holbrook & Co., London.	.....

## DISTRICT OF SASKATCHEWAN EAST--

May	22 Olive Oil.	63750	Maple Leaf Store, Regina.	3 bots.	75	Holbrook & Co., London, Eng.	.....
"	22 "	63752	R. H. Williams & Sons, Regina.	3 "	90	H. J. Heinz Co., Pittsburg, Pa.	.....
"	22 Salad Oil.	63753	" " "	3 "	90	Crosse & Blackwell, London, Eng.	.....
"	26 Olive Oil.	63755	W. A. Caswell & Co. Ltd., Qu'Appelle.	3 "	90	Holbrook & Co., London, Eng.	.....
"	26 "	63756	J. P. Beauchamp & Co., Qu'Appelle.	3 "	75	H. F. Ritchie & Co., Ltd., Toronto, Ont.	.....

## DISTRICT OF SASKATCHEWAN WEST--

June	8 Olive Oil.	64004	J. H. Craig, Rouleau, Sask.	$\frac{1}{2}$ pint	35	Holbrook & Co. ....	.....
"	9 "	64009	P. C. Duncan & Co., Estevan, Sask.	$\frac{1}{2}$ "	15	Crosse & Blackwell, London, Eng.	.....
"	10 "	64916	Curry Grocery Co., Moose Jaw, Sask.	$\frac{1}{2}$ "	25	"	.....
"	10 "	64018	Kent & Brown Co. Ltd., Moose Jaw, Sask.	$\frac{1}{2}$ "	50	H. J. Heinz Co., Pittsburg, U.S.A.	Codville & Co., Moose Jaw.
"	10 "	64020	E. F. Cassidy, Moose Jaw, Sask.	$\frac{1}{2}$ litre	30	.....	W. J. Patrick & Co., Winnipeg.

## DISTRICT OF ALBERTA--

June	16 Olive Oil.	51971	G. H. Graydon, Edmonton.	3 bots.	75	.....	Moos & Co., New York.
"	16 "	51972	J. H. Morris & Co., Edmonton.	3 "	150	Biet Fils, Aine, France.	.....
"	17 "	51973	J. H. Lines, Edmonton	3 "	75	Antoine Guiot, France.	Lymans, Ltd. ....
"	18 "	51974	Wendell Maclean, Calgary.	3 "	120	Nat. Drug & Chem. Co., Montreal.	.....
"	19 Salad Oil.	51975	Hudsons Bay Co., Calgary.	3 "	45	Biet Fils, Aine, France.	.....

## SESSIONAL PAPER No. 14

## OLIVE OIL AND SALAD OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				Found.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 15.5°C.	Iodine number.	Nitric Acid Colour Test.	Halphen Colour Test.			

## A. C. LARIVIERE, INSPECTOR.

Pure Lucca Oil.....	1.4706	.....	Green.....	.....	.....	61136	Genuine olive oil.
The Primrose Olive Oil.	1.4705	...	" .....	.....	.....	61137	"
" Beau Marchand " Brand Virgin Olive Oil, Nice, France.	1.4704	.....	" .....	.....	.....	61138	"
Pure Lucca Oil .....	1.4703	.....	" .....	.....	.....	61139	"
.....	1.4706	.....	" .....	.....	.....	61140	"

## JNO. O. SCOTT, INSPECTOR.

.....	1.4705	.....	Green .....	.....	.....	63750	Genuine olive oil.
.....	1.4703	.....	" .....	.....	.....	63752	"
.....	1.4705	.....	" .....	.....	.....	63753	"
.....	1.4704	.....	" .....	.....	.....	63755	"
.....	1.4704	.....	" .....	.....	.....	63756	"

## L. H. HALL, INSPECTOR.

Sample broken in transit.	.....	.....	.....	.....	.....	64004	Sample lost.
.....	1.4707	.....	Green .....	.....	.....	64009	Genuine olive oil.
.....	1.4707	.....	" .....	.....	.....	64016	"
.....	1.4704	.....	" .....	.....	.....	64018	"
.....	1.4708	.....	" .....	.....	.....	64020	"

## A. W. R. MARKLEY, INSPECTOR.

Imported in bulk, and repacked by vendor.	1.4706	.....	Green .....	.....	.....	51971	Genuine olive oil.
.....	1.4707	.....	" .....	.....	.....	51972	"
.....	1.4704	.....	" .....	.....	.....	51973	"
.....	1.4704	.....	" .....	.....	.....	51974	"
.....	1.4707	.....	" .....	.....	.....	51975	"

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BULLETIN No. 294—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ROCKY MOUNTAINS—

1914.							
June 9	Olive Oil.	61619	O. Strathearn, Kaslo, B.C.	3 bots.	90	Crosse & Blackwell, London, Eng.	.....
" 18	"	61634	C. B. Hume & Co., Revelstoke, B.C.	3 "	105	John Vittucci & Co., Vancouver, B.C.	.....
July 10	"	61647	Trail Grocery Co., Trail, B.C.	3 "	135	A. Magnano, Vancouver, B.C.	.....
" 10	"	61648	" " "	3 "	75	Biet Fils, Aine, France.	.....

## DISTRICT OF VANCOUVER—

May 30	Olive Oil.	55013	T. W. Turner, Pender and Hornby Sts., Vancouver, B.C.	3 bots.	75	John Vittucci & Co., Vancouver, B.C.	.....
" 30	"	55014	T. R. Gosling, 942 Pender St. west, Vancouver, B.C.	3 "	75	Crosse & Blackwell, London, Eng.	.....
" 30	"	55015	A. & C. Grocery, 905 Georgia St., Vancouver, B.C.	3 "	30	A. Magnano & Co., Ltd., Vancouver, B.C.	.....
" 30	"	55016	I. X. L. Grocery, 1013 Robson St., Vancouver, B.C.	3 "	90	Holbrook & Co., London, Eng.	.....
" 30	"	55017	J. McTaggart & Sons, 792 Granville St., Vancouver, B.C.	3 "	105	Los Angeles Olive Oil Grocers' Ass'n., Los Angeles, Cal., U.S.A.	.....

## DISTRICT OF VICTORIA—

May 21	Salad Oil.	61924	Dixi H. Ross & Co., 1317 Govt. St., Victoria, B.C.	3 bots.	75	Crosse & Blackwell, London, Eng.	.....
" 21	"	61927	L. G. Adams Co., Ltd., Johnson & Douglas Sts., Victoria, B.C.	3 "	75	John Vittucci, Vancouver, B.C.	.....
" 21	"	61930	Acton Bros., 1317 Douglas St., Victoria, B.C.	3 "	75	.....	.....
" 21	"	61934	Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	3 "	150	.....	A. Magnano Co., Vancouver, B.C.
" 21	"	61936	Copas & Young, Fort St., Victoria, B.C.	1 bot.	75	.....	Unknown

## SESSIONAL PAPER No. 14

## OLIVE OIL AND SALAD OIL.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.				Found.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 15.5°C.	Iodine num- ber.	Nitric Acid Colour test.	Halphen Colour test.			

## THOS. PARKER, INSPECTOR.

.....	1.4703	...	Green ..	.....	.....	61619	Genuine olive oil.
.....	1.4708	.....	" ..	.....	.....	61634	"
Napoleon .....	1.4704	.....	" ..	.....	.....	61647	"
.....	1.4707	.....	" ..	.....	.....	61648	"

## E. J. MORGAN, INSPECTOR.

" Vittucci " Brand. Guaranteed abso- lutely pure.	1.4707	.....	Green ..	.....	.....	55013	Genuine olive oil.
Pure Lucca Oil ....	1.4708	.....	" ..	.....	.....	55014	"
" Napoleon " Brand. Finest quality.	1.4705	.....	" ..	.....	.....	55015	"
Pure Olive Oil . . .	1.4704	.....	" ..	.....	.....	55016	"
" Sylmar " Brand. California Pure Olive Oil.	1.4710	.....	" ..	.....	.....	55017	"

## D. O'SULLIVAN, INSPECTOR.

Pure Lucca Oil ....	1.4706	...	Green ..	.....	.....	61924	Genuine olive oil.
Virgin Olive Oil ....	1.4706	.....	" ..	.....	.....	61927	"
Finest Salad Oil ....	1.4738	105	Brown..	Red..	Cotton seed oil. . .	61930	Cotton seed oil not declared Adulterated.
Napoleon Olive Oil..	1.4706	.....	Green ..	.....	.....	61934	Genuine olive oil.
.....	1.4706	.....	" ..	.....	.....	61936	"

## APPENDIX K.

### BULLETIN No. 295—LIME JUICE.

OTTAWA, October 23, 1914.

J. U. VINCENT, Esq.,  
Deputy Minister,  
Inland Revenue,

SIR,—I have the honour to hand you a report dealing with one hundred (100) samples of lime-juice, collected officially by our inspectors from May to September of this year.

The last report upon this article was dated July 1913, and had regard to collections made in the earlier part of that year. It is published as Bulletin No. 262. Of thirty samples therein reported only five meet the requirements of departmental standards as published in Circular G 947. These standards, originally legalized, 13th March, 1911, have been challenged in two respects. It is claimed that commercial lime-juice, of guaranteed genuineness, does not always contain 10 per cent of its weight of solids; also, that limits for optical activity should be extended to read from  $+0.5^{\circ}$  to  $-1.0^{\circ}$  of the Soleil Ventzke Scale.

In order to determine the facts, application was made to importers and refiners for certified samples of raw and clarified lime-juice, and the firms of L. Rose & Co., London, England, the National Drug and Chemical Company, of Canada, and Lymans, Limited, of Montreal, were kind enough to furnish me with nine samples under affidavit of genuineness. These gave the following analytical results:—

Nos. 1, 2 and 3, represent the article as manufactured by the National Drug and Chemical Company, Nos. 4 and 5 are the crude and the refined juice as furnished by L. Rose and Company, Nos. 6, 7, and 8 are West Indian lime-juice, as imported by the National Drug and Chemical Company, No. 9 is raw limejuice as imported by Lymans, Limited, from Dominica, B.W.I.



## SESSIONAL PAPER No. 14

	Total Solids per cent.	Citric Acid per cent.	Polarimeter at 20° C.	
No. 1 .....	8.89	7.84	-0.42	Refined.
" 2.....	8.81	7.91	-0.27	"
" 3.....	8.79	7.91	-0.76	"
" 4.....	9.65	8.75	-0.85	Raw.
" 5.....	9.23	8.33	-0.51	Refined.
" 6.....	9.11	7.91	-0.91	Raw.
" 7.....	8.40	7.56	-0.78	"
" 8.....	8.87	7.42	-0.61	"
" 9.....	9.18	8.05	-0.88	"
Means.....	8.99	7.96	-0.66	
Means for raw lime juice.....	9.04	7.94	-0.80	
Means for refined lime juice.....	8.93	7.99	-0.49	

It would appear from the above that the process of refining, which is asserted to consist merely of filtration, with, in most cases the addition of a minute quantity of benzoate of soda, or other preservative, effects but little change in the total solids; has no effect upon reduction of the citric acid content, and is chiefly evidenced by the removal of traces of materials which increase the lævo-rotatory character of the raw juice.

Four samples of raw lime-juice, received by me from the port of Halifax in 1902, and believed to represent importations of that year although not vouched for by affidavit, gave the following results:—

	Total Solids per cent.	Citric Acid per cent.	Polarimeter at 20° C.	Density.
A.....	9.10	8.51	0.0	1.0398
B.....	9.02	8.17	0.0	1.0393
C.....	8.82	7.59	0.0	1.0363
D.....	8.70	7.70	0.0	1.0370
Means.....	8.91	7.99	0.0	1.0381

In a letter dated 31st October, 1913, Inspectors Ogston and Moore, Analytical Chemists, London, England, comment upon our standards for lime-juice as follows: "The citric acid figure is correct but the total solids figure is fixed too high. We find the total solids to be between 8.50 and 9.00 per cent."

The British Pharmacopoeia does not furnish any standards for Lime-Juice, but defines lemon juice (*Succus limonis*) as follows:—

"The freshly expressed juice of the ripe fruit of *Citrus Medica*, Linn., var. *Limonus*, Hook. fil. Specific gravity 1.030 to 1.040; citric acid 7 to 8 per cent. Ash not more than 3 per cent."

The United States Pharmacopoeia defines Lemon juice in similar terms.

*Leach*, "Food Inspection Analysis," 2nd Edition, p. 925, states that both varieties of the genus *citrus* are used indiscriminately for furnishing commercial lime-juice.

In this connection I am favoured by the following letter from the Government Botanist at the Port-of-Spain, Trinidad:—

6 GEORGE V, A. 1916

DEPARTMENT OF AGRICULTURE,

PORT-OF-SPAIN, TRINIDAD, March 9, 1914.

DEAR SIR,—I have recently received a copy of *Bulletin 262* of the Laboratory of the Inland Revenue Department, Canada, dealing with lime fruit juice, and in it I noticed that lime-juice is defined as “the fresh fruit juice obtained from lime fruit (*Citrus Limetta*).”

The lime-juice with which you are dealing is, I understand, the ordinary lime-juice of commerce, of which the West Indies are the largest producers. This lime-juice, is, however not obtained from *Citrus Limetta*, but from *Citrus Medica* var. *acida*. There was formerly confusion between the two plants but this was cleared up as indicated by the following extract from the *Bulletin of the Royal Gardens, Kew*, for 1894, page 113:—

“One of the most distinct species of *Citrus* is *C. Medica*, which includes the citron, lemon, and the limes. Of the limes there are sweet and sour limes, characterized, according to Roxburgh, by small pinkish flowers, usually four petals, and a perfectly spherical fruit, having a thin skin of a lively yellow colour and pale acid juice. Sir Joseph Hooker states that the word lime is promiscuously applied to fruits very different in character, especially in British India, where the sweet limes of various forms are universally spoken of under that name.

“The sour lime, although probably introduced from the East Indies, has made its second home in the West Indies, where, indeed, is its present principal area of systematic cultivation. The history of the sour lime is given by Sir Joseph Hooker in the *Botanical Magazine*, tab. 6745. It was first described by Rumph (*Hortus Amboinensis*, 11, p. 107, tab. 29), in 1750, under the name of *Limonellus*, alias *Limotenus*, or thin-skinned lemon. *C. Limonellus* is also described by Miquel, who says it is cultivated everywhere in the Dutch East Indies. The same plant is well-figured by Wight as *C. Limetta*, Risso (*Icones*, t. 958), who says it is wild in the Nilgiris. In the West Indies, McFadyen very clearly described it as *Citrus Lima*, ‘a thorny shrub with ovated leaves, pentamerous white flowers, small nearly globose, yellow fruit, with thin skin, and an abundance of pure acid juice; it is naturalized in Jamaica, forming strong fences.’ Brandis (*Forest Flora*, Ind., p. 52), rightly places the sour lime of India as a variety of *Citrus Medica*, L.; other authors refer the sour or West Indian lime to *C. Limetta*, Risso, its nearest European representative, but this latter differs in its sweet juice. The botanical position of the West Indian lime as an acid variety of *Citrus Medica*, L. is now established. This small acid lime seems confined to tropical and sub-tropical zones. It does not appear to flourish in Southern Europe, and as already stated, its present headquarters under cultivation are in the West Indies, where in the islands of Montserrat, Dominica and Jamaica it is commercially utilized for the production of lime-juice and essential oil.”

You will have botanical authorities accessible whom you will be able to consult, and if they confirm this view, I would suggest that the official Canadian definition of lime-juice should be altered accordingly.

I remain, yours faithfully,

(Sgd.) W. N. FREEMAN,  
Government Botanist, Acting Director of Agriculture.

In the light of the evidence furnished herewith, it will be necessary to amend present standards for lime-juice, as these appear in Circular No. G 947, as follows:—

## SESSIONAL PAPER No. 14

*Lime-Juice, Lime Fruit Juice* is the freshly expressed juice of the ripe fruit of Citrus (various species); and has a specific gravity at 20° C, not less than 1.030 and not greater than 1.040, and contains not less than eight (8) per cent of solids and not less than (7) per cent of free citric acid. Its optical activity (rotatory power to polarized light) lies between the limits of +0.5° and -1.0° of the Soleil Ventzke Scale, when observed in a column of 200 mm. in length, at 20° C.

The samples herein reported have been judged by these standards and indicate as follows:

Genuine lime juice . . . . .	50 samples.
Below standard in solids, but contain 7 p.c. citric acid	16 "
Less than 1 p.c. below standard in citric acid. . . . .	16 "
Adulterated as containing less than 6 p.c. citric acid	10 "
Sweetened juice . . . . .	8 "
Total. . . . .	100

Eight samples contain sugar (or glucose) in more than traces. When the presence of sugar is acknowledged upon the label, or the article is offered under a name which informs the purchaser in accord with the facts, no fraud is committed. When sold as lime-juice, the addition of sugar, glucose, or anything else, constitutes adulteration. Details of these samples are as below:—

No.	Total Solids.	Citric Acid.	Sugar Approximate.	Labelled or Sold as
2134 . . . . .	19.50	3.15	15	Lime Juice Cordial.
63423 . . . . .	12.78	8.47	4 (glucose)	Lime Juice.
61526 . . . . .	10.39	1.96	8	" "
64005 . . . . .	12.49	5.04	7	Lime Juice Cordial.
64019 . . . . .	10.99	7.42	4	Lime Juice.
51988 . . . . .	27.98	3.08	25	Lime Juice Cordial.
61933 . . . . .	31.36	0.91	30	" "
62262 . . . . .	8.98	6.23	3	Lime Juice.

In the absence of any standards for, or legal definition of lime-juice cordial, it is impossible to charge adulteration in the cases of any samples sold under this name. At the same time, it is worthy of note that numbers 2134, 51988 and 61933 contain less than half their volume of lime-juice.

No. 61526, being sold as lime-juice, must be regarded as adulterated.

In a strict sense, 16 samples which are found below standard in solids, although containing 7 per cent of citric acid; as well as 16 other samples which are below the standard of 7 per cent citric acid, must be regarded as adulterated under the Act.

Inasmuch, however, as this is the first general inspection under these standards, I would respectfully suggest leniency in these cases.

Preservatives, chiefly benzoic or salicylic acid, are in no case present in dangerous amount. It is to be noted that, under the terms of an Order in Council of 4th April of this year, the presence of preservatives must be declared on the label; and benzoic acid must not exceed 1 part in 1,000 parts, nor salicylic acid, 1 part in 5,000 parts of the food material.

I would further recommend publication of this report as Bulletin No. 295.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

6 GEORGE V, A. 1916

BULLETIN No. 295—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1914.							
June 11	Lime Juice. . .	41866	Kirk Bros., Yarmouth, N.S.	3 bots.	30	Suteliffe & Bingham, Manchester, Eng.	McClure & Langley, Toronto.
" 31	" ..	41867	Cain Bros., Yarmouth, N.S.	3 "	30	Nat. Drug Co., St. John, N.B.	Mfrs. ....
" 28	" ..	41868	Nat. Drug & Chem. Co., Halifax, N.S.	3 "	20	Vendors. ....	.....
July 8	" ..	41869	A. L. Doyle & Co., Halifax, N.S.	3 "	45	Nat. Drug Co., Halifax, N.S.	Mfrs. ....
" 8	" ..	41870	Wentzells, Ltd., Halifax, N.S.	3 "	36	Howard Mfg. Co., Halifax, N.S.	" .....

## DISTRICT OF NOVA SCOTIA—

Sept. 12	Lime Juice. . .	53736	A. R. Smith, New Glasgow, N.S.	3 bots.	45	Suteliffe & Bingham, Manchester, Eng.	Unknown .....
" 12	" ..	53737	S. M. Lockhart & Co., New Glasgow, N.S.	3 "	45	" ..	" .....
" 12	" ..	53738	A. J. Roop, New Glasgow, N.S.	3 "	45	Nat. Drug & Chem. Co., Halifax, N.S.	Mfrs. ....
" 12	" ..	53739	A. A. McDonald, New Glasgow, N.S.	3 "	45	" ..	" .....

## DISTRICT OF NEW BRUNSWICK—

June 8	Lime Juice. . .	59526	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	3 bots.	30	Vendors. ....	.....
" 11	" ..	59527	Dearborn & Co., St. John, N.B.	3 "	45	" ..	.....
" 17	" ..	59528	Leger Drug Co., Ltd., Moncton, N.B.	3 "	45	" ..	Nat. Drug & Chem. Co., Ltd., St. John, N.B.
" 23	" ..	59529	Estate of A. J. Waterson, St. Stephen, N.B.	1 bot.	50	" ..	" ..
" 26	" ..	59530	E. E. King, Woodstock, N.B.	3 bots.	30	H. W. Cole & Co., Ltd., St. John, N.B.	.....

## DISTRICT OF QUEBEC—

May 19	Lime Juice. . .	56271	Jos. Masson, 808 rue St. Valier, Quebec.	3 bots.	105	Nat. Drug Co., Montreal.	Mfrs. ....
" 22	" ..	56272	J. D. Marier, 136 rue Dorchester, Quebec.	3 "	135	" ..	J. B. Renaud & Cie.
" 22	" ..	56273	A. Pichette, 176 rue Dorchester, Quebec.	3 "	90	L. Rose & Co., Ltd., London & Leith.	" ..
" 22	" ..	56274	F. X. Goslin, 207 rue la Couronne, Que.	3 "	90	" ..	" ..
" 26	" ..	56275	C. Rivierin, 55 rue de la Couronne.	3 "	105	" ..	" ..

## SESSIONAL PAPER No. 14

## LIME JUICE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total Solids.	Acidity as Citric Acid.	Rotation (2 dm.)	Found.		

## R. J. WAUGH, INSPECTOR.

		p. c.	p. c.				
Kkovah Brand.....	1·0294	7·43	6·86	- 0·5	Salicylic acid.	41866	Below standard. Citric=0·14.
Sovereign Brand.....	1·0294	7·94	7·84	0·0	.....	41867	Genuine.
" " .....	1·0356	8·14	8·00	- 0·3	Salicylic acid.	41868	"
.....	1·0380	8·35	8·19	- 0·5	" ..	41869	"
Howards West India Lime Juice.	1·0323	6·67	6·58	+ 0·2	.....	41870	Below standard. Citric=0·42.

## W. A. PETITPAS, TEMPORARY INSPECTOR.

.....	1·0285	6·89	6·58	- 0·3	Salicylic acid.	53736	Below standard. Citric=0·42.
.....	1·0297	6·55	6·40	- 0·5	" ..	53737	Below standard. Citric=0·60.
Sovereign.....	1·0374	8·70	8·12	- 0·5	Trace salicy- lic acid.	53738	Genuine.
" .....	1·0377	8·26	8·19	- 0·3	Salicylic acid.	53739	"

## JNO. C. FERGUSON, INSPECTOR.

Imported and bottled by vendors.	1·0322	10·65	8·12	- 0·3	.....	59526	Genuine.
" " .....	1·0355	9·64	7·77	- 0·3	.....	59527	"
Superior Dominica.....	1·0374	11·21	8·26	- 0·5	.....	59528	"
.....	1·0345	10·08	7·98	- 0·5	.....	59529	"
Thistle Brand....	1·0492	11·04	8·19	- 0·2	Salicylic acid.	59530	"

## F. X. W. E. BELAND, INSPECTOR.

.....	1·0260	6·09	6·02	0·0	.....	56271	Below standard=0·98.
.....	1·0349	8·22	7·84	- 0·4	.....	56272	Genuine.
.....	1·0346	8·10	7·70	+ 0·2	.....	56273	"
.....	1·0364	8·82	7·91	+ 0·3	.....	56274	"
.....	1·0342	7·72	7·70	+ 0·3	.....	56275	"

6 GEORGE V, A. 1916

BULLETIN No. 295—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1914.							
July	8	Suc de chaux..	2358 Eug. Fournier, St. Jérôme, P. Q.	3 bcts.	135	Evan's Sons Lescher & Webb, Ltd.	.....
"	13	Lime Juice. . .	2374 Frank D. Hall, St. Agathe des Monts.	3 "	60	Holbrooks . . . . .	.....
Aug.	5	" ..	2379 J. D. Campbell, Lachute.	3 "	75	Nat. Drug & Chem. Co., Montreal.	.....
"	5	" ..	2385 J. Christies, Lachute. . .	3 "	75	Rose & Co., Ltd., London, Eng.	.....
June	30	" ..	2835 Gagnon, Quebec.....	3 "	150	.....	.....

## DISTRICT OF THREE RIVERS—

May 22	Lime Juice . . .	60912	J. A. Boisvert, Joliette. .	3 bots.	75	Rose & Co., Ltd., London.	.....
" 22	" ..	60928	Deschenes & Picard, Joliette.	3 "	35	T. A. Lytle Co., Ltd., Toronto.	.....

## DISTRICT OF EASTERN TOWNSHIPS—

June 10	Lime Juice . . .	2130	J. O. McDonald, lac Mégantic.	3 bots.	90	G. T. Sutton Sons, & Co., London.	.....
" 10	" ..	2131	Dr. W. O. Lemblay, Cookshire.	3 "	100	Lyman, Ltd., Montreal.	.....
" 22	" ..	2132	R. Dubreuil, St. Césaire. .	3 "	75	Simson Bros. & Co., Ltd., Halifax.	.....
" 23	" ..	2133	F. P. Williams, Knowlton.	3 "	145	Nat. Drug & Chem. Co. Agents, Ltd., Montreal.	.....
" 26	" ..	2134	La Cie S. Bourgeois, Inc., St. Hyacinthe.	3 "	150	R. Fry & Co., Ltd., Montreal.	.....

## DISTRICT OF MONTREAL—

May 19	Lime Juice . . .	58381	K Cambites, 156 St. Lawrence Blvd., Montreal.	3 bots.	75	.....	Unknown . . . . .
" 19	" ..	58382	Pelletier & Frere, 17 Charboillez Square, Montreal.	3 "	105	.....	Hudon & Orsali, Montreal.
" 20	" ..	58383	A. Corbeil, 55 Mount Royal Ave. East, Montreal.	3 "	30	.....	Unknown . . . . .
" 20	" ..	58384	A. Belanger, 110 Mount Royal Ave. East, Montreal.	3 "	30	.....	E. Beauchamp, Montreal.
" 20	" ..	58385	M. Kilkey, 284 Mount Royal Ave. East, Montreal.	3 "	90	.....	Montreal Drug & Chem. Co., Montreal.

## DISTRICT OF VALLEYFIELD—

June 1	Lime Juice . . .	62355	P. T. McLaurin, Vankleek Hill.	3 bots.	30	.....	.....
" 18	" ..	62356	S. Auclair, Chambly Centre.	3 "	75	.....	.....

## SESSIONAL PAPER No. 14

## LIME JUICE.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total solids.	Acidity as citric acid.	Rotation (2 dm.)	Found.		

## N. CADIEUX AND J. E. AUDET, TEMPORARY INSPECTORS.

		p. c.	p. c.				
.....	1 0368	9.39	8.26	- 0.4	.....	2358	Genuine.
.....	1 0347	8.44	7.91	- 0.5	.....	2374	"
.....	1 0309	8.15	7.14	- 0.3	.....	2379	"
.....	1 0353	10.42	7.84	- 0.4	.....	2385	"
.....	1 0317	9.70	7.63	- 0.3	Benzoic acid.	2835	"

## Dr. V. P. LAVALLÉE, INSPECTOR.

.....	1 0352	9.10	8.05	- 0.5	.....	60912	Genuine.
.....	1 0238	5.95	5.04	- 0.3	.....	60928	Below standard. Adulterated. Citric=1.96.

## J. C. ROULEAU, INSPECTOR.

.....	1 0297	9.44	7.98	- 0.5	.....	2130	Genuine.
.....	1 0343	10.20	8.12	- 0.5	Benzoic acid.	2131	"
.....	1 0329	7.07	7.00	- 0.5	Salicylic acid.	2132	Below standard in solids.
.....	1 0345	9.97	7.84	- 0.5	.....	2123	Genuine.
.....	1 1311	19.50	3.15	- 34.2	Benzoic acid.	2134	Sweetened with sugar. Below standard in citric acid=3.85

## D. J. KEARNEY, INSPECTOR.

Roses.....	1 0368	9.80	8.05	+ 0.4	.....	58381	Genuine.
Montserrat.....	1 0369	10.08	8.05	- 0.4	.....	58382	"
Kkovah.....	1 0302	7.27	7.00	- 0.5	Salicylic acid.	58383	Below standard in solids.
Daltons.....	1 0293	6.43	5.83	- 0.5	"	58384	Below standard. Adulterated. Citric=1.17.
Sovereign.....	1 0302	7.30	6.44	- 0.5	.....	58385	Below standard, citric=0.56.

## J. J. COSTIGAN, ACTING INSPECTOR.

Rose Brand, ....	1 0348	8.98	8.05	- 0.4	.....	62355	Genuine.
Sovereign.....	1 0305	7.13	6.86	- 0.4	.....	62356	Below standard. Citric=0.14.

6 GEORGE V, A. 1916

BULLETIN No. 295—

Date of Collection.	Nature of Sample.	No. of sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VALLEYFIELD—							
1914.							
June 19	Lime Juice...	62357	H. M. Davies, St. Lambert.	3 bts.	30		
" 19	" ..	62358	R. Boissy, St. Lambert.	3 "	105		
DISTRICT OF OTTAWA—							
June 2	Lime Juice...	63421	E. C. Armand, Arnprior.	3 bts.	90	The T. A. Lytle Co., Ltd., Toronto.	Mrs. ....
" 5	" ..	63422	A. S. Moreland, Bank St., Ottawa.	3 "	75	Evan's Sons, Lescher & Webb, London, Eng.	" ..
" 5	" ..	63423	" ..	3 "	75	Dalton Bros., Toronto.	" ..
" 6	" ..	63424	D. J. Gillies, Cornwall.	3 "	120	L. Rose & Co., Ltd., London, Eng.	" ..
" 8	" ..	63425	Thos. J. Ferguson, James St., Ottawa.	3 "	75	G. F. Sutton Sons & Co., London, Eng.	H. N. Bate & Sons, Ottawa.
DISTRICT OF KINGSTON—							
May 20	Lime Juice...	61526	Thompson Bros., Belleville.	3 bts.	30	Green, Toronto.	.....
" 20	" ..	61527	George Boyle, Belleville.	3 "	20		.....
" 20	" ..	61528	F. H. Brown, Port Hope.	3 "	75	L. Rose & Co., London.	.....
" 21	" ..	61529	J. E. Lillico, Peterboro.	3 "	75	Imperial Extract Co., Toronto.	.....
" 21	" ..	61530	W. J. Kent, Peterboro.	3 "	75	Nat. Drug Co., Toronto.	.....
DISTRICT OF TORONTO—							
May 26	Lime Fruit Juice.	63233	Imperial Extract Co., Matilda St., Toronto.	10 3 bts.	60	Vendors .....	.....
" 26	" ..	63234	Drug Trading Co., Ltd., 6 & 8 Ontario St., Toronto.	3 "	83	A. P. Tippitt, Montreal.	.....
" 26	" ..	63235	Dalton Bros., 11 Front St. East, Toronto.	3 "	75	Vendors .....	.....
" 26	" ..	63236	The T. A. Lytle Co., Ltd., Sterling Road, Toronto.	3 "	30	" ..	.....
" 26	" ..	63237	F. T. McMaster, 452 Roncesvalles St., Toronto.	2 "	50	Sutcliffe & Birmingham, Ltd., Manchester, Eng.	Drug Trading Co., Ltd., Toronto.
DISTRICT OF HAMILTON—							
June 4	Lime Juice...	62262	Dawson & Co., Brampton.	3 bts.	30	Dalton Bros., Toronto.	
" 6	" ..	62263	E. M. Spring, Galt.	3 "	30		Jas. Lumbers, Ltd., Toronto.



## SESSIONAL PAPER No. 14

## LIME JUICE.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total solids.	Acidity as citric acid.	Rotation (2 dm.)		
				Found.		

*Concluded.*

		p. c.	p. c.			
Rose .....	1.0346	8.14	7.84	- 0.3	62357	Genuine.
Montserrat.....	1.0337	9.10	8.05	- 0.5	62358	

## J. A. RICEY, INSPECTOR.

"Sterling" Brand ...	1.0339	7.77	7.14	- 0.5	Benzoic acid	63421 Below standard in solids.
"Olympia" Brand, quality guaranteed.	1.0339	7.52	7.28	- 0.3		63422
.....	1.0394	12.78	8.47	- 8.5		63423 Contains glucose. Otherwise genuine. May contain added citric acid.
.....	1.0345	8.25	8.05	- 0.3		63424 Genuine.
.....	1.0281	6.39	6.30	- 0.3		63425 Below standard. Citric=0.70

## JAS. HOGAN, INSPECTOR.

.....	1.0455	10.39	1.96	-10.8	Salicylic acid.	61526 Below standard. Adulterated. Citric=5.04. Contains sugar
Kkovah.....	1.0303	7.06	5.88	- 0.3		61527 Below standard. citric=1.12. Adulterated.
.....	1.0359	9.61	8.12	- 0.3		61528 Genuine.
.....	1.0191	4.22	4.20	- 0.5		61529 Below standard. Adulterated. Citric=2.80.
.....	1.0302	7.53	7.07	0.0		61530 Below standard in solids.

## H. J. DAGER, INSPECTOR.

"Yacht Club".....	1.0191	5.17	4.90	- 0.2		63233 Below standard. Citric=2.19. Adulterated.
Stowers Pure Lime Juice contains no alcohol.	1.0328	7.83	7.21	- 0.3		63234 Below standard in solids.
Dalton's West India Lime Juice.	1.0311	7.20	7.14	- 0.3		63235
"Sterling" Brand ...	1.0300	6.98	6.30	- 0.3		63236 Below standard. Citric=0.70.
Kkovah Brand.....	1.0260	6.13	5.81	- 0.5	Salicylic acid.	63237 Below standard. Citric=1.19. Adulterated.

## H. J. DAGER, ACTING INSPECTOR.

Dalton's Lime Juice ....	1.0387	8.98	6.23	- 3.8	Benzoic acid	62262 Below standard. Citric=0.77. Contains sugar.
Rose's Lime Juice. ....	1.0348	7.76	7.70	- 0.1		62263 Below standard in solids.

6 GEORGE V, A. 1916

BULLETIN No. 295—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vender.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF HAMILTON—

1914							
June 10	Lime Juice....	62264	E. B. Mealley, 1096 Barton St., East, Hamilton	3 bots.	75	.....	Nat. Drug and Chem. Co., Ltd., Hamilton.
" 11	" ..	62265	W. A. Howell, King and Emerald Sts., Hamilton	3 "	110	.....	Maclure & Langley, Toronto.
" 11	" ..	62266	R. D. Saul, 150 James St., North, Hamilton.	3 "	75	.....	A. A. Adams, Hamilton.

## DISTRICT OF WINDSOR—

May 26	Lime Juice. .	53675	J. A. Gibson, Petrolia....	3 bots.	75	Unknown....	Unknown.....
" 26	" ..	53682	A. Scarsbrook, " ..	3 "	75	Rose & Co., London, Eng.	.....
" 27	" ..	53684	Jas. Galbraith, Sarnia....	3 "	120	.....	T. Kenny & Co., Sarnia.
" 27	" ..	53637	A. A. Gammon & Son, Sarnia.	3 "	30	.....	Holbrook & Co., Toronto.
" 27	" ..	53692	W. C. Palmer, Sarnia....	3 "	75	T. A. Lytle, Toronto.	.....

## DISTRICT OF MANITOBA—

May 26	Lime Juice....	61131	Joseph Chaddad, 530 Notre Dame, Winnipeg.	3 bots.	75	The Blackwoods, Ltd., Winnipeg.	.....
" 26	" ..	61132	McNeill Bros., Sargent & Sherbrooke, Winnipeg.	3 "	75	Nat. Drug & Chem. Co., of Canada.	.....
June 8	" ..	61133	J. A. McKerchar, Main St., Winnipeg.	3 "	105	G. F. Sutton Sons & Co., England.	.....
" 8	" ..	61134	Andrews Drug Store, Main & Logan, Winnipeg.	3 "	120	L. Rose & Co., London, Eng.	.....
" 9	" ..	61135	Walter Fee, Logan Ave., Winnipeg.	3 "	45	The Black woods, Ltd., Winnipeg.	.....

## DISTRICT OF SASKATCHEWAN, EAST—

May 30	Lime Juice....	63762	The Colonial, Regina.....	3 bots.	75	The T. A. Lytle Co. Ltd., Toronto	.....
" 30	" ..	63767	Reg. Grocery, Regina....	3 "	40	L. Rose & Co., London, Eng.	.....
June 1	" ..	63770	E. A. Jolly, Regina.....	3 "	150	Evan's Sons, Leasher & Webb, London, Eng.	.....
" 1	" ..	63771	Colonial Grocery, Regina.	3 "	105	White Star Mfg., Co. Winnipeg.	.....
" 1	" ..	63773	A. Duncan, Regina.....	3 "	75	Martin Bole & Wynne Co., Winnipeg.	.....

## SESSIONAL PAPER No. 14

## LIME JUICE.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Samples	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total solids.	Acidity as citric acid.	Rotation (2 dm.)	Found.		

*Concluded.*

		p. c.	p. c.				
Olympia Lime Juice ....	1·0338	7·49	7·42	-0·5	.....	62264	Below Standard in Solids.
Kkovah.. " " ....	1·0271	6·68	6·37	-0·4	Salicylic acid.	62265	Below Standard. Citric=0·63.
Stones " " ....	1·0359	8·18	7·28	-0·2	.....	62266	Genuine.

## JNO. TALBOT, INSPECTOR.

Olympia Lime Juice ....	1·0303	7·10	7·00	-0·2	.....	53675	Below Standard in Solids.
Rose's West India Lime Juice	1·0350	9·05	8·05	-0·5	.....	53682	Genuine.
Montserrat Guaranteed pure.	1·0367	9·77	8·12	-0·3	.....	53684	"
Roses Lime Juice.....	1·0348	8·01	7·91	-0·5	.....	53687	"
"Sterling" Brand.....	1·0307	7·12	7·07	-0·3	Salicylic acid.	53692	Below Standard in Solids.

## A. C. LARIVIERE, INSPECTOR.

Blackwoods Lime Fruit Juice.	1·0355	8·96	7·56	-1·6	Salicylic acid.	61131	Exceptional in rotation—Other- wise genuine; Trace Sugar added.
Sovereign.....	1·0301	7·36	6·86	-0·3	.....	61132	Below Standard. Citric=0·14.
.....	1·0273	6·63	5·88	-0·5	Salicylic acid.	61133	Below Standard, Adulterated. Citric=1·12.
Rose's Lime Juice.....	1·0358	7·99	7·89	-0·5	.....	61134	Genuine.
Blackwoods Lime Fruit Juice.	1·0357	8·39	7·62	-1·6	Salicylic acid.	61135	Exceptional in rotation, other- wise genuine; a trace sugar.

## JNO. O. SCOTT, INSPECTOR.

.....	1·0305	6·94	6·30	0·0	.....	63762	Below Standard. Citric=0·70.
.....	1·0346	8·10	8·05	+0·2	.....	63767	Genuine.
.....	1·0348	9·43	8·12	-0·2	.....	63770	"
.....	1·0322	7·91	7·35	-0·5	Salicylic acid.	63771	"
.....	1·0286	6·85	6·30	-0·4	.....	63773	Below Standard. Citric=0·70.

6 GEORGE V, A. 1916

BULLETIN No. 295—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF SASKATCHEWAN WEST—

1914.							
June 9	Lime Juice....	64005	H. S. Elvin, Weyburn, Sask.	1 pint.	25	Bole Drug Co., Winnipeg.	.....
" 10	" ..	64019	Kent & Brown Co., Ltd, Moosejaw, Sask.	1 "	25	Dalton Bros., Toronto.	.....
" 11	" ..	64022	Moosejaw Drug & Stationery Co., Moosejaw, Sask.	1 "	40	L. Rose & Co., Ltd., London, Eng.	.....
" 11	" ..	64025	Paragon Store, Moosejaw, Sask.	1 bot.	25	White Star Mfg. Co., Winnipeg.	.....
" 12	" ..	64033	E. L. Colling, Moosejaw, Sask.	1 "	50	.....	Nat. Drug and Chem. Co.

## DISTRICT OF ALBERTA—

June 16	Lime Juice....	51986	J. H. Morris & Co., Edmonton.	3 bots.	135	.....	Evan's Sons, Lecher & Webb, Ltd., London.
" 16	" ..	51987	Hallier & Aldridge, Edmonton.	3 "	120	L. Rose & Co., Ltd., London, Eng.	.....
" 19	" ..	51988	Hudsons Bay Co., Calgary.	3 "	105	" ..	Holbrook & Co., Toronto.
" 20	" ..	51989	C. H. Barry, Riverside, Calgary.	3 "	105	Lyman Bros. & Co., Ltd., Toronto.	.....
" 20	" ..	51990	S. G. Freeze, Calgary.	3 "	120	Imperial Extract Co., Toronto.	.....

## DISTRICT OF ROCKY MOUNTAINS—

June 9	Lime Juice....	61626	Byers, Giegerich Co., Kaslo, B.C.	Green 3 bots.	150	The Montserrat Co., Montserrat.	.....
" 18	" ..	61628	L. C. Masson, Revelstoke, B.C.	3 "	120	W. H. Malkin & Co., Vancouver, B. C.	.....
" 18	" ..	61635	C. B. Hume & Co., stoke, B.C.	Revel- 3 "	105	L. Rose & Co., London, Eng.	.....
" 18	" ..	61642	G. W. Bell, Revelstoke, B.C.	3 "	135	Imperial Extract Co., Toronto.	.....
" 18	" ..	61645	A. Hobson, Revelstoke, B.C.	3 "	135	Kelly, Douglas & Co., Vancouver, B.C.	.....

## SESSIONAL PAPER No. 14

## LIME JUICE.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sol. gr. of Juice.	Total solids.	Acidity as citric acid.	Rotation (2 dm.)	Found.		

## L. H. HALL, INSPECTOR.

		p.c.	p.c.				
.....	1·0298	12·49	5·04 - 26·0	Salicylic acid.	64005	Contains sugar. Below standard.	
.....	1·0544	10·99	7·42 - 5·2	Benzoic acid and sugar.	64019	Contains sugar. Otherwise genuine.	
.....	1·0323	7·84	7·35 - 0·2	.....	64022	Below standard in solids.	
.....	1·0322	7·19	7·14 - 0·2	Salicylic acid.	64025	Below standard in solids.	
.....	1·0348	8·26	8·05 - 0·2	.....	64033	Genuine.	

## A. W. R. MARKLEY, INSPECTOR.

Montserrat .....	1·0363	9·20	8·05 - 0·5	.....	51986	Genuine.	
.....	1·0348	8·05	7·77 - 0·3	.....	51987	"	
.....	1·1198	27·98	3·08 - 34·0	Salicylic acid.	51988	Contains sugar. Below standard. Citric=3·92.	
.....	1·0339	7·29	7·14 - 0·4	.....	51989	Below standard in solids.	
.....	1·0261	7·22	6·86 + 0·5	.....	51990	Below standard. Citric=0·14.	

## THOS. PARKER, INSPECTOR.

Montserrat .....	1·0352	8·08	7·98 + 0·2	.....	61626	Genuine.	
.....	1·0352	8·48	8·05 - 0·3	Salicylic acid.	61628	"	
.....	1·0338	8·14	7·56 - 0·3	.....	61635	"	
Yacht Club .....	1·0300	8·03	7·28 - 0·4	.....	61642	"	
Nabob .....	1·0353	7·49	7·14 + 0·2	.....	61645	Below standard in solids.	

6 GEORGE V, A. 1916

BULLETIN No. 295—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VANCOUVER—

1914							
June	1	Lime Juice....	55033	Vancouver Drug Co., 405 Hastings street West, Vancouver, B.C.	3 bots.	75	L. Rose & Co., London, Eng.
"	1	" ..	55034	The Edgett Stores, Ltd., 111 Hastings St. West, Vancouver, B.C.	3 "	75	Alex. Riddle & Co., Ltd., London, Eng.
"	2	" ..	55035	Hudsons Bay Co., Vancouver, B.C.	3 "	120	Evan's Sons, Lescher & Webb, London, Eng.
"	4	" ..	55036	T. A. Muir & Co., 441 Columbia street, New Westminster, B.C.	3 "	40	Nat. Drug and Chem. Co. of Canada.
"	4	" ..	55037	D. S. Curtis & Co., 659 Columbia street, New Westminster, B.C.	3 "	100	Unknown .....

## DISTRICT OF VICTORIA—

May	21	Lime Juice....	61929	L. C. Adams Co., Ltd., Johnston and Douglas streets, Victoria, B.C.	3 bots.	75	....	W. A. Jameson Coffee Co., Victoria, B.C.
"	21	" ..	61931	Acton Bros., 1317 Douglas street, Victoria, B.C.	3 "	45	W. A. Ross & Bros., Belfast.	....
"	21	" ..	61933	Windsor Grocery Co., 817 Government street, Victoria, B.C.	3 "	150	Wm. Sanderson & Son, Leith.	....
"	21	" ..	61937	Copas & Young, 633 Fort street, Victoria, B.C.	3 "	60	....	Pure Fruit Packing Co., Vancouver, B.C.
"	22	" ..	61939	H. O. Kirkham & Co., Ltd., 741 Fort street, Victoria, B.C.	2 "	105	Alex. Riddle & Co., London, Eng.	....

## SESSIONAL PAPER No. 14

## LIME JUICE.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total solids.	Acidity as citric acid.	Rotation (2 dm.)	Found.		

E. J. MORGAN, INSPECTOR.

		p. e.	p. c.				
.....	1·0357	8·44	7·77	- 0·3	.....	55033	Genuine.
Stowers' Pure Lime Juice	1·0307	7·51	6·93	- 0·2	.....	55034	Below standard. Citric=0·07
Montserrat. Guaranteed pure.	1·0346	8·90	7·84	+ 0·3	.....	55035	Genuine.
Sovereign .....	1·0207	6·40	4·55	- 0·3	.....	55036	Below standard. Adulterated. Citric=2·45.
Bottled by Vendor and guaranteed pure.	1·0303	7·18	6·72	- 0·4	.....	55037	Below standard. Citric=0·28.

D. O'SULLIVAN, INSPECTOR.

"Jamesons" Limeade ..	1·0173	4·76	4·62	0·0	Salicylic acid.	61929	Below standard. Not sold as Lime Juice. Citric=2·38.
"Great Auk's Head" Brand, Lime Juice Cordial.....	1·0338 1·1411	8·25 31·36	7·56 0·91	- 0·2 - 42·0	" ..	61931 61933	Genuine. Sugar present. Below standard. Citric=6·09.
"Pure Fruit" Lime Juice	1·0187	3·59	3·51	- 0·2	" ..	61937	Below standard. Adulterated. Citric=3·49.
.....	1·0323	7·10	7·00	- 0·4	.....	61939	Below standard in solids.

## APPENDIX L.

## BULLETIN No. 296—FOODS AND MEDICINES FOR CATTLE

## CHIEFLY REGISTERED STOCK FEEDS.

OTTAWA, November 18, 1914.

J. U. VINCENT, Esq.,

Deputy Minister Inland Revenue,

SIR,—I have the honour to hand you a report dealing with 151 samples of various character; but chiefly with that class of cattle feeds which cannot be legally sold without registration, as provided by Section 5 of the Commercial Feeding Stuff's Act of 1909. It was intended that this report should have regard only to this class of feeds; but several of our inspectors collected samples of cattle medicines or of feeds which are exempted from registration by Section 2 (b) of the Act.

So far as I am able to classify the samples herein reported, they may be defined as:—

	Samples.
Bran, shorts (middlings) or chop feeds—not requiring to be registered for sale.....	35
Cattle medicines, not sold for their food value.. . . .	24
Stock feeds, which can only be legally sold under registration.. . . .	92
Total.....	151

*Bran* is required to contain a minimum value of 14 per cent protein, 3 per cent fat and a maximum of 10 per cent crude fibre.

There is nothing to prevent a manufacturer from guaranteeing higher values than these minima, and giving the article a distinctive name, in which case, such feed will be regarded as a feed requiring registration, and it will be expected to possess the guaranteed value claimed by the manufacturer. If sold simply as *bran* I do not think that we can characterize it as adulterated so long as it meets the legal standard for *bran*.

Ten (10) samples were sold as *bran*. All of these meet the legal standard for *bran*.

*Shorts* (middlings) is required to contain at least 15 per cent protein, 4 per cent fat and not more than 8 per cent crude fibre.

Thirteen (13) samples are sold as *shorts*. All of these meet legal requirements for *shorts*. Four of these samples are sold under a guarantee considerably higher than the legal minimum, and in only one instance (No. 50697 does the sample fall below its guarantee.)

In Bulletin No. 231, pp. 4-6 I have pointed out the fact that feeds sold as *shorts* and *middlings* vary greatly among themselves, and that while it appears impossible to distinguish *shorts* from *middlings*, as these terms are ordinarily used there is an accepted belief that an article containing less fibre and more starch than are found in ordinary *shorts* or *middlings*, has a higher food value especially for fattening hogs, than the darker coloured article. This feed is variously sold as *number one shorts*, or *special shorts*, or *feed flour*, or *gru blanc*. I have suggested that the classification of feeds not requiring registration as defined in the Order in Council of May 1, 1911 (published as G. 968) might be amended by recognizing *Feed Flour* as something distinct from *shorts* (*middlings*), (See Bulletin No. 254, p. 6) and having a higher protein value and a lower content of crude fibre than *shorts*. The French equivalents



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for feeds which are vendable without registration appear to be as follows: bran, son; shorts (middlings), gru rouge, son fine, petit son or recoupe; feed flour, gru blanc or remoulage; chop feed, moulée or grains concassé.

For the present, it would seem necessary to identify *gru rouge*, *gru blanc*, and *feed flour* with middlings or shorts.

*Chop feed* is required to contain at least 10 per cent protein 2 per cent fat and not more than 10 per cent crude fibre.

Twelve (12) samples are sold as chop feeds, and all meet legal requirements for chop feed.

Six of these give special guarantee of value, and in all cases of the kind, the values found are equal to the guarantee.

Of 24 samples sold as medicines, nothing need be said. Parties interested are referred to Bulletin No. 282, which deals with this subject.

*Registered* feeds must be sold under the particular number granted to the manufacturer by this Department, and every package is required to have this number affixed to it in a plain and legible manner. (See Section 7 of the Act). In addition to the registration number the tag or label or stencil on the bag must carry the name of the brand, the name and address of the manufacturer and the guarantee of analysis showing the percentage of protein, fat and fibre claimed.

Ninety-two (92) samples fall into this class of feeds. Of this number sixty-nine (69) samples are registered and meet the requirements of their guarantee. Twelve (12) samples are sold without registration numbers on the package and in these cases the vendors are amenable to the penalty fixed by Section 15 of the Act. Several of these samples bear a guarantee of analysis, and it may be that such samples are registered by the Department. In such cases the vendor incurs the penalty for selling the article without its registration number, which constitutes indentionification of the brand. (See Section 7 of the Act). The guaranteed value of the article is met by the following samples, which however, do not bear registration numbers.

62734.....	District of Valleyfield.
63331.....	District of Ottawa.
63332.....	District of Ottawa.

Twelve (12) samples fail to meet their guarantee, as follows:—

No. 2273.....	1:75	p.c. low in	protein.
" 62445.....	2:97	"	"
" 63339.....	2:75	"	" and 2:84 low in fat.
" 62177.....	1:88	"	" " 1:68 "
" 62185.....	1:41	"	fat " 3:5 high in fibre.
" 62293.....	1:73	"	fat.
" 62296.....	2:12	"	protein.
" 62297.....	1:89	"	fat.
" 62300.....	2:50	"	fat.
" 53636.....	4:13	"	fat.
" 55010.....	1:31	"	protein; 1:18 p.c. low in fat, and 9:00 p.c. excess fibre.
" 55011.....	3:91	p.c. low in	protein.

No. 62300 appears among the samples not bearing registration numbers.

I beg to recommend publication of this report as Bulletin No. 296.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,  
Chief Analyst.

6 GEORGE V, A. 1916

BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1914.							
May 11	Growfast Calf Meal.	53971	A. W. Smith & Co., Halifax, N.S.	2 lbs.	Nil.	International Stock Food Co., Toronto.	Mfrs. ....
" 12	Calf Meal ....	53972	Halifax Seed Co., Halifax, N.S.	1½ "	6	Blatchford Calf Meal Co., Waukegan, Ill.	A. A. Archibald, Truro, N.S.
" 12	" ....	53973	" " " "	1½ "	Nil.	W. A. Jenkins Co. London, Ont.	Mfrs. ....
" 14	Molassine Meal.	53974	Hants County Fruit & Produce Co., Windsor, N.S.	1½ "	"	Molassine Co., Greenwich Eng.	Company Agents St. John, N.S.
" 14	Cream Equivalent.	53975	Wentworth Stores, Windsor, N.S.	1½ "	5	J. Bibby & Sons, Liverpool, Eng.	W. Rennie, Toronto, Ont.
" 15	Calf Meal ...	53976	A. A. Archibald, Truro, N.S.	1½ "	Nil.	Blatchford Calf Meal Factory, Waukegan, Ill.	Mfrs. ....
" 15	Banner Brand	53977	M. T. Crowe, Truro, N.S.	1½ "	"	Quaker Oats Co., Peterboro, Ont.	" .....
" 15	Schumacher Brand.	53978	" " "	1½ "	"	" " "	" .....
" 18	Molassine Meal.	53979	Forsythe jr., Dartmouth, N.S.	1½ "	"	Molassine Co., Greenwich, Eng.	I. B. Shaffner & Co., Halifax, N.S.
" 18	Wheat Bran..	53980	S. Thomson, Dartmouth, N.S.	1½ "	5	Maple Leaf Milling Co., Toronto	A. & W. Smith & Co., Halifax, N.S.

## DISTRICT OF NEW BRUNSWICK—

April 8	Molassine Meal.	50693	G. T. Whelpley, Fredericton, N. B.	3 Tins	10	The Molassine Co., Ltd., Greenwich, Eng.	.....
" 8	Bran. ....	50694	" " "	3 "	10	Western Canada Flour Mills Co., Ltd., Canada.	.....
" 11	Growfast Calf Meal.	50695	J. W. Niles, Andrews, N. B.	3 "	20	International Stock Food Co., Ltd. Toronto, Ont.	.....
" 17	Middlings ....	50696	P. Nase & Sons, Ltd., St. John, N. B.	3 "	10	Robin Hood Mills Ltd., Moosejaw.	.....
" 17	" ....	50697	" " "	3 "	10	Western Canada Flour Mills Co.	.....

## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of opinion).	Registration Number.	Analysis of Sample.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat	Fibre.	Vital Weed Seeds.			
						No. per Oz.	Chiefly.		

R. J. WAUGH, INSPECTOR.

Reg. No.			p.c.	p.c.	p.c.				
Reg. No. 261....	261	As guaranteed	23.0	6.0	6.0	.....	.....	53971	Meets guarantee.
		As found.....	25.88	5.34	6.4	.....	.....		
" 3 ....	3	As guaranteed	25.0	5.0	5.0	.....	.....	53972	" "
		As found.....	25.56	5.90	6.3	.....	.....		
" 262 ...	262	As guaranteed	17.81	7.10	4.46	.....	.....	53973	" "
		As found.....	18.37	12.89	2.8	.....	.....		
" 133....	133	As guaranteed	7.0	0.05	7.0	.....	.....	53974	" "
		As found..	10.93	0.31	5.6	.....	.....		
" 82....	82	As guaranteed	14.0	14.0	7.0	.....	.....	53975	" "
		As found.....	18.81	14.14	5.8	.....	.....		
" 3....	3	As guaranteed	25.0	5.0	5.0	.....	.....	53976	" "
		As found.....	26.0	5.52	5.6	.....	.....		
" 16....	16	As guaranteed	8.5	3.5	9.0	.....	.....	53977	" "
		As found.....	11.18	3.31	5.4	.....	.....		
" 13 ...	13	As guaranteed	10.5	4.0	10.5	.....	.....	53978	" "
		As found.....	10.93	3.15	7.2	.....	.....		
" 133 ...	133	As guaranteed	7.0	0.05	7.0	.....	.....	53979	" "
		As found.....	8.75	0.37	6.3	.....	.....		
No number on bag.	....	As guaranteed	15.0	4.5	12.0	.....	.....	53980	Meets guaranty, named
Claim — Pro-			15.32	5.19	8.9	.....	.....		as a bran. Registration
vided 15.0, Fat									not required.
4.5. Fibre									
12.0.									

JNO. C. FERGUSON, INSPECTOR.

Reg. No. 133....	133	As guaranteed	7.0	0.05	7.0	.....	.....	50693	Meets guarantee.
		As found.....	9.69	0.85	5.7	.....	.....		
" 66....	66	As guaranteed	16.82	5.50	10.86	.....	.....	50694	Meets guarantee. Sold
		As found.....	17.06	4.38	8.7	.....	.....		as Bran.
" 261...	261	As guaranteed	23.0	6.0	6.0	.....	.....	50695	Meets guarantee.
		As found..	28.0	5.57	7.0	.....	.....		
Brand. "Germ,	....		15.00	4.00	8.0	.....	.....	50696	Sold as middlings.
Lion & Wheat	....	As found.....	28.33	8.40	1.9	.....	.....		Registration not re-
Sheaves Shield"									quired. As guar-
Reg. No. 64....	64	As guaranteed	18.36	6.04	7.51	.....	.....	50697	Below Standard in pro-
		As found.....	16.63	4.62	4.3	.....	.....		vided and fat as guar-
									anteed. Meets re-
									quirements for midd-
									lings.

6 GEORGE V, A. 1916

BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NEW BRUNSWICK—

1914.							
April 17	Schumacher Chop Feed.	50698	A. C. Smith & Co., St. John.	3 tins.	10	Quaker Oats Co., Peterboro, Ont.	
" 17	Middlings....	50699	"	3 "	10	Campbell Flour Mills Co., Ltd., Toronto.	
" 23	Hercules.....	50700	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	15	Ogilvie Flour Mills Co., Ltd., Montreal.	
" 23	Bibby's Cream Equivalent.	50393	"	3 "	15	J. Bibby & Sons, Liverpool, Eng.	Wm. Rennie & Co., Toronto, Ont.
" 24	Bran.....	50394	Toombs & Son, Moncton, N.B.	3 "	15	Maple Leaf Milling Co., Toronto, Ont.	

## DISTRICT OF QUEBEC—

Mar. 9	International Stock Food.	56227	Jos. Masson, 808 Rue St. Valier, Quebec.	1 box.	50	International Stock Food.	W. Brunet et Cie.
" 9	Omazon....	56229	"	1 "	35	Canadian Food Co.	Dr. Ed. Morin..
" 11	Melassing Feeds.	56232	Begin & Frere, 67 Rue St. Roch, Quebec.	3 lbs.	15	Unknown.....	Colonel Bois....
" 11	Palmer Medical.	56233	L. E. Martel, 51 Rue St. Joseph, Quebec.	1 box.	100	Palmer Medical, Ltd., Windsor, Ont.	Mfr.....
" 31	Son.....	56235	D. E. Drolet, 52 Rue D'Alhousie, Quebec.	3 lbs.	....	Western Canada Flour Mills, Montreal.	Mfrs.....
" 31	Moulee d'Orge	56236	"	3 "	....	Thos. MacKay Co., Ltd., Bowmanville, Ont.	".....
" 31	Gru Rouge....	56237	"	3 "	....	Maple Leaf Milling Co., Toronto.	".....
" 31	Middlings....	56238	"	3 "	....	Dominion Flour Mills Co., Ltd., Montreal.	".....
" 31	Gru Blanc....	56239	"	3 "	....	Campbell Flour Mills Co., Toronto.	".....

## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of opinion.)	Registration Number.	Analysis of Sample.	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.		
						No. per ounce.		

*Concluded.*

Reg. No.			p.c.	p.c.	p.c.				
Reg. No. 13....	13	As guaranteed	10.5	4.0	10.5			50698	Meets guaranteed value. Sold as chop feed. Needs no registration.
		As found.....	12.69	2.65	7.3				
"Bull Rush" brand. No reg. number.		As found.....	15.0	4.0	8.0			50699	Sold as middlings. Meets standard for middlings.
Pure Corn Oats and Barley Feed Brand. "Ogilvie's Hercules."		As found.....	10.0	2.0	10.0			50700	Sold as chop. Meets standard.
			11.38	3.87	6.3	2	Ball mustard and Russian pigweed		
For using with separated or skim milk.	(82)	As guaranteed	14.0	14.0	7.0			50393	Meets guarantee.
		As found.....	17.50	14.02	5.7				
No reg. number. Reg. Brand Maple Leaf.		As found.....	14.0	3.0	10.0			50394	Sold as bran. Is up to standard.
			19.50	4.14	9.1				

## F. X. W. E. BELAND, INSPECTOR.

		As found.....	15.56	2.62	9.0			56227	A cattle medicine.
		As found.....	29.25	9.24	7.0			56229	A condition powder.
	(133)	As guaranteed	7.0	0.05	7.0			56232	Meets guarantee.
		As found.....	9.38	0.19	5.7			56233	Is a cattle medicine.
		As found, cop- peras, glau- bers salt, nitre, sul- phur, fenu- greek, car- away, gentian and linseed.	18.38	7.00	5.5	1	Dragon Head.		
		As found.....	14.0	3.0	10.0			56235	Sold as bran. Meets standard.
		As found.....	17.06	4.04	8.8				
		As found.....	10.0	2.0	10.0			56236	Sold as chop. Meets standard.
		As found.....	13.13	3.41	5.6				
		As found.....	15.0	4.0	8.0			56237	Sold as shorts. Meets standard.
		As found.....	16.25	3.86	6.5			56238	Sold as middlings. Meets standard.
		As found.....	15.0	4.0	8.0				
		As found.....	18.19	3.69	5.7				
		As found.....	15.0	4.0	8.0			56239	Sold as middlings. Meets standard.
		As found.....	15.31	2.88	2.0				

6 GEORGE V, A. 1916

BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF QUEBEC—

1914.							
Mar. 31	Son.....	56240	P. G. Busiere & Cie, Quebec.	3 lbs..	15	Lac des Bois, Montreal.	Mfrs. ....
" 31	Gru Blanc. ...	56241	" " ..	3 "	15	" ..	.....
" 31	Gru Rouge...	56242	" " ..	3 "	15	" ..	.....
" 31	Moule et Avoine.	56243	" " ..	3 "	15	" ..	.....
" 31	Moule et Orge.	56244	" " ..	3 "	15	Bowmanville, Ont.	.....

## DISTRICT OF QUEBEC PROVINCE—

Mar. 24	Pain de Lin...	2503	Cleophas Boivin.....	1½ lb..	6	Sherwin Williams Co.	J. B. Renaud & Cie., Que.
" 24	Son .. .. .	2504	" .. .. .	1½ "	3	St. Lawrence Flour Mills.	" ..
" 24	Pain de Lin ..	2505	Arthur Frachette.....	1½ "	5	Sherwin Williams Co.	P. G. Bussière et Cie, Quebec.
" 24	" .. .. .	2508	Jos. Langlois.....	1½ "	3	Winnipeg Linseed Oil Mills.	J. B. Renaud, Quebec.
" 24	Son .. .. .	2509	" .. .. .	1½ "	3	Ogilvies .....	P. G. Bussière, Quebec.
" 24	Pain de Lin ..	2512	F. X. Bolduc.....	1½ "	6	Sherwin Williams Co.	.....
" 24	Son .. .. .	2513	" .. .. .	1½ "	3	Renfrew Milling Co., Ont.	.....

## DISTRICT OF THREE RIVERS—

Mar. 9	Molassine. ...	60967	T. Theriault, St. Felix de Valois.	3 lbs..	20	Molassine Feeding Meal Co., Greenwich, London, Eng.	.....
" 12	" .. .. .	60940	J. McGuire, St. Gabriel de Brandon.	3 "	Nil.	" .. .. .	.....
" 11	" .. .. .	60939	T. Theriault, St. Felix de Valois.	3 "	20	" .. .. .	.....

SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of opinion.)	Registration No.	Analysis of Sample.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.			
						No. per oz.	Chiefly		

*Concluded.*

			p. c.	p. c.	p. c.				
			14.0	3.0	10.0			56240	Sold as bran. Meets standard.
			15.63	4.00	9.5			56241	Sold as middlings. Meets standard.
		As found.	17.50	3.75	2.6			56242	Sold as shorts. Meets standard.
		As found.	15.00	4.00	8.00			56243	Sold as chop. Meets standard.
		As found.	17.00	5.20	5.1			56244	" "
		As found.	10.0	2.0	10.0				
		As found.	10.94	1.96	14.9				
		As found.	10.0	2.0	10.0				
		As found.	14.81	4.50	6.8				

O. BROCHU, INSPECTOR.

		As found.	37.81	6.98	7.2			2503	No registration number.
		As found.	14.0	3.0	10.0			2504	Sold as bran. Meets standard.
		As found.	21.19	4.78	8.1	2	Stinkweed	2505	No registration number.
		As found.	38.49	8.20	7.4			2508	" "
		As found.	57.06	6.79	8.2			2509	Sold as bran. Meets standard.
		As found.	14.0	3.0	10.0			2512	No registration number.
		As found.	27.62	7.71	6.8			2513	Sold as bran. Meets standard.
		As found.	14.0	3.0	10.0	6	Wild mustard, campion, burdock, dragon head and Russian pigweed.		
		As found.	16.18	3.55	8.3				

DR. V. P. LAVALLÉE, INSPECTOR.

Reg. No 133...	133 As guaranteed.	7.0	0.05	7.0			60967	Meets guarantee.
	As found.	7.00	0.30	4.8				
"	133 As guaranteed.	7.0	0.05	7.0			60940	"
	As found.	8.90	0.16	5.3			60939	"
"	133 As guaranteed.	7.0	0.05	7.0				
	As found.	12.00	0.23	5.8				

6 GEORGE V, A. 1916

BELLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF EASTERN TOWNSHIPS—

1914.							
April 29	Moulee Kam-oat.	2271	A. Birtz, Drummondville.	3 lbs.	5	Lake of the Woods Milling Co.	
" 29	Pure Oil Cake-meal.	2272	J. S. Maguire, Waterloo, P.Q.	2 "	5	J. J. Livingstone, Montreal.	
" 29	Molassine Meal.	2273	M. F. Goddard, Waterloo, P.Q.	3 "	6	The Molassine Co., Ltd., Greenwich, Eng.	
May 1	Calf Meal....	2274	J. Bedard & Son, Richmond East.	5½ "	28	The Blatchford Calf Meal Co., Waukegan, Ill.	
" 1	Schumacher ..	2275	M. F. J. McKee, Richmond East.	4 "	....	The Quaker Oats Co., Peterboro.	
" 1	Cream Feed..	2276	M. K. McKenzie, Richmond East.	4 "	....	Ogilvies, Montreal	
" 5	Herbageum Poultry Spice	2277	J. A. Messier, Abbotsford	2 "	30	Beaver Mfg. Co., Galt.	
" 6	Kremo Feed..	2278	Racine & Bedard, Granby	4 "	....	Western Canada Flour Mills Co., Montreal.	
" 6	Pioneer Cotton Seed Meal.	2279	E. Rogers, West Shefford	3 "	....	J. E. Soper Co., Boston.	
" 18	Molassine Meal.	2280	H. Gaucher, St. Hyacinthe	4 "	....	The Molassine Co., Ltd., Greenwich, Eng.	

## DISTRICT OF MONTREAL—

May 8	Kamoat.....	62441	Lake of the Woods M. Co., Montreal.	3 jars.	....	Vendors .	
" 8	Oxmeal.....	62442	" " "	3 "	....	"	
" 8	Middlings....	62443	Western Canada Flour Mills.	3 "	....	"	
" 8	Shorts.....	62444	" " "	3 "	....	"	
" 8	Kremo Feed..	62445	" " "	3 "	....	"	
" 8	Choice Middlings.	62446	Western Canada F. Mills, Montreal.	3 "	....	Vendor.....	
" 8	Feed Flour...	62447	" " "	3 "	....	"	
" 8	Molassine ...	62448	F. Gobeille, 1344 Henry Julien st., Montreal.	3 "	15	The Molassine Co., London, Eng.	



## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of opinion.)	Registration No.	Analysis of Sample.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.			
						No. per oz.	Chiefly.		

## J. C. ROULEAU, INSPECTOR.

			p.c.	p.c.	p.c.		
Reg. No. 50...	50	As guaranteed	11.0	2.5	16.0	...	2271 Meets guarantee.
		As found.....	12.81	2.19	14.4	...	2272 Not registered.
		As found.....	35.62	7.75	7.5	...	
Reg. No. 133...	133	As guaranteed	7.0	0.05	7.0	...	2273 Meets guarantee.
		As found.....	7.10	0.26	6.2	...	
" 3...	3	As guaranteed	25.0	5.0	5.0	...	2274 "
		As found.....	26.69	4.72	5.7	...	
" 13...	13	As guaranteed	10.5	4.0	10.5	...	2275 "
		As found. ....	12.44	3.09	10.1	1 Wild mustard.	
" 101...	101	As guaranteed	8.5	3.0	14.5	...	2276 "
		As found.....	9.63	3.59	13.7	...	
		As found, charcoal, bran, gentian, linseed and salt	21.69	3.77	7.00	...	2277 Is a poultry medicine, not a food.
Reg. No. 74...	74	As guaranteed	11.56	2.16	16.20	...	2278 Meets guarantee.
		As found.....	13.56	2.62	7.9	...	
" 171...	171	As guaranteed	41.0	7.0	10.0	...	2279 "
		As found.....	40.0	6.73	10.3	...	
	(133)	As guaranteed	7.0	0.05	7.0	...	2280 "
		As found.....	10.06	0.40	6.2	...	

## D. J. KEARNEY, INSPECTOR.

Reg. No. 50...	50	As guaranteed	11.0	2.5	16.0	...	62441 Meets guarantee.
		As found.....	10.94	2.13	14.7	...	
" 51...	51	As guaranteed	16.5	3.2	7.6	...	62442 "
		As found. ....	15.63	3.38	5.2	...	
" 64...	64	As guaranteed	18.36	6.04	7.51	...	62443 Meets guarantee. Sold as Middlings, did not require registration.
		As found.....	17.75	5.42	5.9	...	
" 63...	63	As guaranteed	18.38	6.02	7.99	...	62444 Meets guarantee. Sold as Shorts, did not need registration.
		As found.....	18.34	5.13	5.4	...	
" 74...	74	As guaranteed	11.56	2.16	16.20	...	62445 Below guarantee in proteids.
		As found.....	8.59	1.73	14.7	...	
" 68...	68	As guaranteed	16.73	4.39	5.20	...	62446 Meets guarantee. Sold as middlings. Did not need registration.
		As found. ....	20.25	4.35	4.31	...	
" 65...	65	As guaranteed	16.23	3.90	3.29	...	62447 Meets guarantee.
		As found.....	18.81	3.86	3.5	...	
" 133...	133	As guaranteed	7.0	0.05	7.0	...	62448 "
		As found.....	10.06	0.22	5.5	...	

6 GEORGE V, A. 1916  
BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MONTREAL—

1914.							
May	9 Feed Flour...	62449	E. W. Caron, 67 Commissioner st., Montreal.	3 lbs.	....	Western Canada Flour Mills Co., Montreal.	.....
"	9 Molassine ....	62450	" " ..	3 "	....	The Molassine Co., London, Eng.	.....

## DISTRICT OF VALLEYFIELD —

Mar.	26 Banner. ....	62731	W. S. Hays, Hawkesbury, Ont.	3 lbs.	10	.....	.....
"	26 Molassine Meal.	62732	" " ..	3 "	10	.....	.....
April	23 Blatchfords Calf Meal.	62733	R. J. McDougal & Son, Lancaster, Ont.	3 "	15	.....	.....
"	23 Bibbys Cream Equivalent Meal.	62734	R. J. McDougal & Son, Lancaster, Ont.	3 "	15	J. Bibby & Son, Liverpool.	.....
"	23 Gluten Feed...	62735	" " ..	3 "	15	Edwardsburgh Starch Co., Cardinal, Ont.	.....
"	23 Schumacher ..	62736	" " ..	3 "	15	Quaker Oats Co., Peterboro, Ont.	.....

## DISTRICT OF OTTAWA—

Mar.	13 Bibbys Cream Equivalent Meal.	63331	Fred. A. Davis, Quyon.	3 tins.	10	J. Bibby & Sons, Liverpool, Eng.	.....
"	16 Molassine Meal.	63332	W. H. Poole, Smith's Falls.	3 "	25	The Molassine Co., Greenwich, Eng.	Molassine Co., Montreal.
"	17 Rydes Cream Calf Meal.	63333	N. Turner & Son, Cornwall.	3 "	25	Ryde & Co., Chicago, Ill.	Unknown ..
"	16 Banner Feed..	63334	W. H. Poole, Smith's Falls	3 "	25	The Quaker Oats Co., Peterboro, Ont.	Mfrs .....
	25 Blatchford's Calf Meal.	63335	K. McDonald & Sons, Ottawa.	3 "	10	The Blatchford Calf Meal Factory, Waukegan, Ill.	.....

## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of Opinion.)	Registration No.	Analysis of Sample.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.			
						No. per oz.	Chiefly.		

*Continued.*

			p. c.	p. c.	p. c.				
Reg. No. 65....	65	As guaranteed	16.23	3.90	3.29	.....	.....	62449	Meets guaranteed value
		As found.....	18.58	2.31	1.4	.....	.....		
" 133....	133	As guaranteed	7.0	0.05	7.0	.....	.....	62450	Meets guarantee.
		As found.....	10.50	0.22	6.6	.....	.....		

J. J. COSTIGAN, ACTING INSPECTOR.

Reg. No. 16....	16	As guaranteed	8.5	3.5	9.0	.....	.....	62731	Meets guarantee.
		As found.....	11.38	3.03	8.3	.....	.....		
" 133 ...	133	As guaranteed	7.0	0.05	7.0	.....	.....	62732	"
		As found.....	8.83	0.24	5.5	.....	.....		
" 3....	3	As guaranteed	25.0	5.0	5.0	.....	.....	62733	"
		As found.....	33.32	4.94	6.0	.....	.....		
Analysis poorly stencilled on bags and number not shown.	(82)	As guaranteed.	14.0	14.0	7.0	.....	.....	62734	Meets guarantee. Bags not stamped.
		As found.....	15.75	13.88	6.0	.....	.....		
Reg. No. 53....	53	As guaranteed.	23.0	3.0	6.0	.....	.....	62735	Meets guarantee.
		As found.....	33.06	1.71	7.1	.....	.....		
" 13....	13	As guaranteed.	10.5	4.0	10.5	.....	.....	62736	"
		As found.....	10.34	3.14	11.5	.....	.....		

4 Wild mustard and false flax.

J. A. RICKEY, INSPECTOR.

No analysis nor Reg. No. on bags. Use with separated or skim milk.	82	As guaranteed.	14.0	14.0	7.0	.....	.....	63331	Meets guarantee. Bags not stamped.
		As found.....	21.44	14.11	5.2	.....	.....		
Bags are stamped with Reg. No. and analysis.	133	As guaranteed.	7.0	0.05	7.0	.....	.....	63332	Meets guarantee.
		As found.....	9.13	0.22	5.2	.....	.....		
Bags are stamped with analysis, but no Reg. No. found.	...	As guaranteed.	25.0	5.0	6.0	.....	.....	63333	Meets guarantee, but not registered.
		As found.....	28.87	5.12	5.2	.....	.....		
Bags are stamped with Reg. No. and analysis.	16	As guaranteed	8.5	3.5	9.0	.....	.....	63334	Meets guarantee.
		As found.....	8.61	2.77	8.6	.....	.....		
"The Milk Substitute." Bags are stamped with Reg. No. and analysis.	3	As guaranteed	25.0	5.0	5.0	.....	.....	63335	
		As found.....	30.00	4.98	6.6	.....	.....		

6 GEORGE V, A. 1916

BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF OTTAWA—

1914.							
Mar. 25	Caldwell's Molasses Meal.	63336	W. A. Blyth, Ottawa ....	3 tins.	15	The Caldwell Feed Co., Ltd., Dundas, Ont.	Mfrs. ....
" 25	Victor Feed..	63337	Larose Frere " ....	3 "	15	Quaker Oats Co., Peterboro, Ont.	" .....
" 26	Alberta Feed.	63338	D. Martin " ....	3 "	25	The Chisholm Milling Co., Toronto.	" .....
" 26	Crescent Feed	63339	" " ....	3 "	25	" ..	" .....
" 26	Gluten Feed..	63340	J. J. Ralph " ....	3 "	25	The Canada Starch Co., Cardinal, Ont.	" .....

## DISTRICT OF KINGSTON—

Mar. 17	Schumacher...	60087	Quaker Oats Co., Peterboro, Ont.	3 lbs.	10	Vendors.....	.....
" 17	Banner.....	60088	" " .....	3 "	10	" .....	.....
" 17	Victor.....	60089	" " .....	3 "	10	" .....	.....
" 17	Molac Horse..	60090	" " .....	3 "	10	" .....	.....
" 17	Molac Dairy..	60091	" " .....	3 "	10	" .....	.....

## DISTRICT OF TORONTO—

April 6	Gluten Feed..	62177	Cramsey & Kelly, 780 Dovercourt Road, Toronto.	3 lbs.	5	The Canada Starch Co., Ltd., Brantford.	.....
" 6	Good Luck Dairy Tested Feed.	62178	" " .....	3 "	5	Vendors.....	.....
" 7	Pro-Fat.....	62179	The Farmers' Feed Co., Ltd., 108 Don Esplanade, Toronto.	3 "	5	Vendors .....	.....

## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of opinion.)	Registration No.	Analysis of Sample.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.			
						No. per oz.	Chiefly		

*Concluded.*

			p.c.	p.c.	p.c.				
Bags are stamped with Reg. No. and analysis.	124	As guaranteed	4.6	0.81	2.71	.....		63336	Meets guarantee.
		As found.....	4.50	0.33	3.9				
" ..	14	As guaranteed	8.0	3.5	12.0	.....		63337	"
		As found.....	9.25	3.04	10.3	1	Wild mustard.		
" ..	156	As guaranteed	9.0	4.0	18.0	.....		63338	"
		As found. ....	10.6	4.15	12.1				
" ..	84	As guaranteed	9.0	5.0	20.0	.....		63339	Below guarantee in
		As found.....	6.25	2.16	19.5				proteids and fat.
" ..	53	As guaranteed	23.0	3.0	6.0	.....		63340	Meets guarantee.
		As found.....	25.87	3.04	7.6				

## JAS. HOGAN, INSPECTOR.

Reg. No.									
13....	13	As guaranteed	10.5	4.0	10.5	.....		60087	Meets guarantee.
		As found.....	10.43	3.34	9.5				
" 14....	14	As guaranteed	8.0	3.5	12.0	.....		60088	"
		As found.....	8.88	3.11	9.5				
" 15....	15	As guaranteed	10.0	3.5	12.0	.....		60089	Nearly meets guarantee
		As found....	8.94	3.03	11.0	13	Wild mustard, western wall flower, hare's ear mustard, stinkweed, wormwood false flax.		
" 16....	16	As guaranteed	8.5	3.5	9.0	.....		60090	Meets guarantee in
		As found.....	13.12	2.86	13.8				value.
" 17....	17	As guaranteed	15.0	3.5	12.0	.....		60091	Meets guarantee.
		As found.....	17.06	3.15	10.2				

## H. J. DAGER, INSPECTOR.

Reg. No.									
12, analysis guaranteed.	12	As guaranteed	15.0	10.0	6.0	.....		62177	Below guarantee in
		As found.....	13.12	8.32	5.5				proteids and fat.
203, analysis guaranteed.	203	As guaranteed	32.0	6.0	6.0	.....		62178	Meets guarantee.
		As found.....	32.37	6.86	5.6				
Reg. No. 98, analysis guaranteed.	98	As guaranteed	20.04	5.23	22.94	.....		62179	"
		As found.....	20.63	5.96	11.0				

6 GEORGE V, A. 1916

BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF TORONTO—

1914.							
April 7	Caldwell's Molasses Meal.	62180	McCann Milling Co., Ltd., 131 Front St., East, Toronto.	3 lbs.		The Caldwell Feed Co., Ltd., Dundas, Ont.	.....
" 7	Bran.....	62181	The Campbell Flour M. Co., Ltd., West Toronto	3 "	5	Vendors.....	.....
" 7	Shorts.....	62182	" "	3 "	5	"	.....
" 8	Molassine Meal.	62183	Moody Bros., Weston, Ont	3 "	5	The Molassine Co., Ltd., Greenwich, Eng.	.....
" 9	Faramel Horse Food.	62184	Faramel, Ltd., 222 Dupont St., Toronto.	3 "	15	Vendors.....	.....
" 9	Peerless Cattle and Hog Feed.	62185	The Chisholm Milling Co., Ltd., Esplanade St., Toronto.	3 "	5	"	.....
" 11	Pro-Fat Molasses Meal..	62186	The Farmers' Feed Co., Ltd., 108 Don Esplanade St., Toronto.	3 "	5	"	.....

## DISTRICT OF HAMILTON—

April 13	Shorts.....	62289	The James Dunlop Co., Ltd., 129 John St., South, Hamilton.	3 lbs.	5	Ogilvie Milling Co., Ltd., Montreal.	.....
" 13	".....	62290	Bennett & Son, 188 King St., West, Hamilton.	3 "	5	" "	.....
" 13	Caldwell's Molasses Meal.	62291	W. B. Bothum, 49 Mc-Nabb St., North, Hamilton.	3 "	6	The Caldwell Feed Co., Ltd., Dundas.	.....
" 13	Ideal Stock Food.	62292	J. J. Hobson, 92 John St., South, Hamilton.	1 pkg.	25	Vendor.....	.....
" 13	Crescent Feed	62293	Bennett & Son, 188 King St., West, Hamilton.	3 lbs.	5	The Chisholm Milling Co., Ltd., Toronto.	.....
" 13	Alert Mixed Chop.	62294	The James Dunlop Co., Ltd., 129 John St., South, Hamilton.	3 "	5	Vendors.....	.....

## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of Opinion.)	Registration No.	Analysis of Sample.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.			
						No. per oz.	Chiefly.		

Concluded.

Reg. No. 124.	124	As guaranteed	p.c. 4·6	p.c. 0·81	p.c. 2·71	.....	.....	62180	Meets guarantee.
New Process.		As found.....	4·05	0·17	3·6	.....	.....		
"Bull Rush"	.....	.....	14·0	3·0	10·0	.....	.....	62181	Sold as bran. Meets standard.
Brand. No		As found.....	15·63	4·0	9·2	15	Stickseed and ches		
Analysis nor	.....	.....	.....	.....	.....	.....	.....		
Reg. No. on		.....	15·0	4·0	8·0	.....	.....	62182	Sold as shorts. Meets standard.
bags.		As found.....	17·50	4·90	6·4	6	Worm-seed, must- ard, stick- seed and ergot.		
" "	.....	.....	.....	.....	.....	.....	.....		
Reg. No. 133.	133	As guaranteed	7·0	0·05	7·0	.....	.....	62183	Meets guarantee.
Analysis guar- anteed.		As found.....	8·30	0·13	6·0	.....	.....		
Reg. No. 60. An- alysis guaran- teed.	60	As guaranteed	11·6	5·08	9·4	.....	.....	62184	"
		As found....	17·13	4·03	6·2	.....	.....		
Reg. No. 173.	173	As guaranteed	10·0	5·0	12·0	.....	.....	62185	Below guarantee in fat, and above guarantee in fibre.
Analysis guar- anteed.		As found. ....	10·06	3·59	15·5	.....	.....		
Reg. No. 208.	208	As guaranteed	20·0	5·0	15·0	.....	.....	62186	Meets guarantee.
Analysis guar- anteed.		As found.....	21·69	5·31	13·6	.....	.....		

H. J. DAGER, ACTING INSPECTOR.

No Reg. No. on	..	.....	15·0	4·0	8·0	.....	.....	62289	Sold as shorts. Meets standard.
bags. Analysis		As found.....	15·69	4·93	6·2	.....	.....		
guaranteed.	.....	.....	15·0	4·0	8·0	.....	.....	62290	" "
Bags are branded		As found.....	17·44	5·28	7·2	.....	.....		
"Ogilvie's <>	.....	.....	.....	.....	.....	.....	.....		
Shorts." No		.....	.....	.....	.....	.....	.....		
Reg. No.		.....	.....	.....	.....	.....	.....		
Reg. No. 124.	124	As guaranteed	4·6	0·81	2·71	.....	.....	62291	Meets guarantee.
Analysis guar- anteed.		As found.....	4·80	0·79	3·6	.....	.....		
Reg. No. 267.	267	As guaranteed	27·5	11·02	7·20	.....	.....	62292	"
Guaranteed		As found.....	27·56	15·7	7·5	.....	.....		
Pure, no poi- sonous drugs.	.....	.....	.....	.....	.....	.....	.....		
Reg. No. 84. . .	84	As guaranteed	9·0	5·0	20·0	.....	.....	62293	Below guarantee in fat.
		As found....	8·95	3·27	18·1	.....	.....		
" 79....	79	As guaranteed	10·38	4·17	10·77	.....	.....	62294	Meets guarantee. Re- gistration as chop feed not required.
		As found. ....	11·13	3·49	4·3	.....	.....		

6 GEORGE V, A. 1916

BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF HAMILTON—

1914.							
April 14	Creameal . . . .	62295	The Wodehouse Invigorator, Ltd., 49 Stuart St., Hamilton.	4 lbs.	20	Vendors . . . . .	
" 14	Regal Molasses Meal.	62296	The Hamilton Brewing Association, Ltd., Bay and Market Sts., Hamilton.	3 "	"	Manufacturers . . . . .	
" 15	Gluten Meal.	62297	The Canada Starch Co., Ltd., Brantford.	3 "	5	"	
" 36	Caldwell's Dairy Meal.	62298	The Caldwell Feed Co., Ltd., Dundas.	3 "	5	"	
" 30	Caldwell's Calf Meal.	62299	The Caldwell Feed Co., Ltd., Dundas.	3 "	5	"	
" 30	Purina Baby Chick Feed.	62300	P. Ronan, 12 York St., Hamilton.	3 "	15	The Chisholm Milling Co., Ltd., Toronto.	

## DISTRICT OF WINDSOR—

March 9	International Growfast Calf Meal.	53623	Dundas & Sowler, Ingersoll.	3 jars.	15	International Stock Food Co., Toronto	
" 10	Caldwells Calf Meal.	53624	David Crossett, Tillsonburg.	3 "	15	Caldwell Feed Co., Dundas.	
" 10	Caldwells Molasses Meal.	53625	David Crossett, Tillsonburg.	3 "	15	" "	
" 11	Ideal Poultry Food.	53630	W. H. McLean, Simcoe.	3 "	25	Ideal Stock and Poultry Food Co., Hamilton.	
" 11	Ideal Stock Food.	53631	" "	3 "	50	" "	
" 11	Digestive Tankage.	53634	E. Edmonds, Simcoe.	3 "	8	Harris Abattoir Co., Toronto.	
" 11	Wodehouse Animal Invigorator.	53635	"	3 "	25	Wodehouse, Hamilton.	
" 11	Harris Poultry Bone, Coarse.	53636	"	3 "	15	Harris Abattoir Co., Toronto.	
" 11	Harris Beef Meal.	53637	"	3 "	10	" "	



## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of opinion.)	Registration No.	Analysis of Sample.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.	
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.				
						No. per oz.	Chiefly.			
<i>Concluded.</i>										
			p.c.	p.c.	p.c.					
The Perfect Food. Reg. No. 284.	284	As guaranteed	14.42	5.47	2.45	...		62295	Meets guarantee.	
		As found....	16.88	5.42	2.1	.....				
Reg. No. 283....	283	As guaranteed	21.0	6.5	17.0	...		62296	Below guarantee in proteids.	
		As found.....	18.88	5.92	14.7	.....				
" 258....	258	As guaranteed	15.0	10.0	7.0	...		62297	Below guarantee in fat.	
		As found.....	14.88	8.11	5.1	.....				
" 256....	256	As guaranteed	20.0	6.3	10.5	...		62298	Meets guarantee.	
		As found.....	20.56	5.09	10.1	.....				
" 177....	177	As guaranteed	19.0	7.0	5.0	...		62299	"	
		As found.....	20.13	7.68	3.9	.....				
No Reg. No. (46) visible on the bag. Sold as Poultry Food.		As guaranteed	12.0	5.0	2.5	...		62300	Below guarantee in fat.	
		As found....	12.50	2.50	2.0	8	Wild mustard, Bed-straw and Hares ear mustard.			

## JNO. TALBOT, INSPECTOR.

Reg. No. 199....	199	As guaranteed	23.0	6.0	6.0	.....	.....	53623	Meets guarantee.
		As found....	26.37	5.56	7.0	.....	.....		
" 177....	177	As guaranteed	19.0	7.0	5.0	.....	.....	53624	"
		As found.....	20.94	9.77	3.6	.....	.....		
" 124....	124	As guaranteed	4.6	0.81	2.71	.....	.....	53625	"
		As found.....	4.38	0.08	3.4	.....	.....		
" 266....	266	As guaranteed	25.75	8.14	8.02	.....	.....	53630	"
		As found.....	28.62	11.34	6.6	.....	.....		
" 267....	267	As guaranteed	27.50	11.02	7.20	.....	.....	53631	"
		As found.....	27.85	15.13	6.2	.....	.....		
" 129....	129	As guaranteed	60.0	8.0	10.0	.....	.....	53634	"
		As found.....	61.25	6.78	1.3	.....	.....		
" 1....	1	As guaranteed	24.67	9.62	8.64	.....	.....	53635	Meets guarantee. Sold as a medicated food, having feed value.
		As found.....	25.51	9.20	8.4	.....	.....		
" 223....	223	As guaranteed	25.0	5.0	.....	.....	.....	53636	Below guarantee in fat.
		As found.....	28.81	0.87	0.8	.....	.....		
" 221....	221	As guaranteed	65.0	8.0	5.0	.....	.....	53637	Meets guarantee.
		As found.....	70.87	11.87	1.1	.....	.....		

6 GEORGE V, A. 1916

BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF SASKATCHEWAN—

1914.							
Mar. 27	Stock Food...	63704	Campbell's Pharmacy, Regina.	3 samples.	50	W. A. Jenkins Mfg. Co., London.	.....
" 27	" ..	63705	" ..	3 "	Nil.	Nat. Drug and Chem. Co. of Canada.	.....
" 28	" ..	63707	E. F. Cassidy, Moosejaw.	3 "	25	International Stock Food, Toronto.	.....
" 30	" ..	63720	R. P. Teasdale, Regina...	3 "	25	" ..	.....
" 30	" ..	63723	The Regina Trading Co., Regina.	3 "	25	" ..	.....
" 30	" ..	63724	E. A. Jolly, Regina.....	3 "	25	Drs. Hess & Clark, Ashland, Ohio.	.....
" 31	" ..	63725	Sedly Drug Store, Sedly, Sask.	3 "	25	Fraiser Thornton & Co., Ltd., Quebec.	.....
" 31	" ..	63726	Chisholm & Wheeler, Sedly, Sask.	3 "	25	The Canadian Food and Drug Prod. Co., Moosejaw.	.....
Apr. 1	" ..	63739	Richard N. Kelly, Regina.	3 "	50	W. A. Jenkins Mfg. Co., London.	.....
" 1	" ..	63740	" ..	3 "	25	New York and London Drug Co., U.S.A.	.....

## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of opinion).	Registration No.	Analysis of Sample.	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.		
						No. per oz. Chiefly.		
			p. c.	p. c.	p. c.			
		As found. Aniseed, fenugreek, gentian, linseed, glaubers salt, copperas and nitre.	25.37	7.61			63704	A condition powder.
		As found. Charcoal, gentian, linseed, nitre, copperas and salt.	24.59	5.06	10.5		63705	" "
		As found. Capsicum, charcoal, gentian, salt and grain products.	12.25	3.06	9.6		63707	Cattle medicine.
		As found. Capsicum, calumba, charcoal, elecampane, gentian, wild mustard, salt and grain products.	15.31	2.82	9.6		63720	"
		As found. Gentian, linseed, salt and screenings.	8.31	3.16	25.6		63723	"
		As found. Charcoal, copperas, nitre, salt and middlings.	11.44	1.85	6.7		63724	Condition powders.
		As found. Charcoal, bloodroot, fenugreek and middlings.	17.44	3.44	14.2		63725	" "
233		As found. Shell, linseed, fenugreek, capsicum, charcoal, bone, nitre, salt, wheat, germ and blood.	27.25 34.12	6.35 6.10	7.59 4.7		63726	Meets guaranty.
		As found. Fenugreek, linseed, copperas and sulphur.	23.62	3.17	5.1		63739	Condition powder.
		As found. Bloodroot, coriander, gentian, ginger, copperas, licorice, rosin, nitre, juniper and others.	12.25	6.26			63740	" "

6 GEORGE V, A. 1916.

## BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ALBERTA—

1914.							
Mar. 18	Reg. Stock Feeds.	51947	Spencer & Todd, Medicine Hat.	1½ lb.	50	The International Stock Food Co., Minneapolis.	
" 19	"	51948	Hudson's Bay Co., Lethbridge.	1 pkt.	50	W. A. Jenkins Mfg. Co., London, Ont.	
" 19	"	51949	Higginbotham & Co., Ltd., Lethbridge.	1 "	65	Drs. Hess & Clark, Ashland, Ohio.	
" 23	"	51950	A. E. Potter Co., Edmonton.	1 "	25	International Stock Food Co., Minneapolis.	
" 23	"	51951	Thrasher Drug Co., Ltd., Edmonton.	1 "	50	"	
" 24	"	51952	The McDermid Drug Co., Calgary.	1 "	50	Pratt Food Co., Philadelphia.	
" 24	"	51953	" "	2 pkts.	60	"	
" 24	"	51954	" "	2 "	50	"	
" 24	"	51955	Thomas Fletcher, Calgary	1 pkt.	50	W. A. Jenkins Mfg. Co., London, Ont.	
" 24	"	51956	Erb. & Anderson, Calgary	1 "	25	International Stock Food Co., Minneapolis.	

## DISTRICT OF ROCKY MOUNTAINS—

May	2 Royal Purple Stock Specific.	61607	Hudson's Bay Co., Nelson, B.C.	3 pkgs	150	W. A. Jenkins Mfg. Co., London, Ont.	
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## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an ex- pression of opinion.	Registration No.	Analysis of Sample.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.			
						No. per oz.	Chiefly.		

## A. W. MARKLEY, INSPECTOR.

Reg. No.			p. c.	p. c.	p. c.				
22886.	As found.	Capsicum, charcoal, gentian, salt and grain products.	7.94	1.76	25.1	3	Wild mustard, false flax and stink-weed.	51947	Cattle medicine.
Reg. No. 50.	As found.	Fœnugreek, gentian, glaubers, salt, copperas, linseed, nitre and sulphur.	27.93	3.61	6.4			51948	Condition powder.
4072	As found.	Charcoal, copperas, nitre, salt and mid-dings.	9.25	1.11	9.2			51949	" "
22886	As found.	Capsicum, charcoal, gentian, salt and grain products.	5.69	1.18	29.3			51950	Medicinal.
	As found.	Capsicum, gentian, copperas and bran.	15.56	3.58	7.7			51951	Medicated poultry food. Not sold for food value.
Made in Toronto. Cow Tonic. Reg. No. 448.	As found.	Bole, gentian, salt, sulphates and ground screenings.	14.19	4.83	9.1			51952	Condition powder.
Cow Tonic.	As found.	Shell, capicum, gentian, corn and wheat products.	9.44	2.60	12.8			51953	Medicated food. Food value not guaranteed.
448, Pratts' Animal Regulator.	As found.	Copperas, salt, gentian, ginger, fœnugreek ground screenings.	14.56	6.87	8.4			51954	Medicinal.
Reg. No. 50.	As found.	Fœnugreek, gentian, linseed, glaubers salt, copperas and nitre.	21.44	6.00	14.5			51955	Condition powder.
52791 & 22886 Trade Marks.	As found.	Capsicum, gentian, salt, charcoals, grain products.	16.94	1.44	27.0			51956	Medicinal.

## THOS. PARKER, INSPECTOR

	As found.	Fœnugreek, linseed, gentian, glaubers salt, copperas, nitre, salt, sulphur.	17.44	5.08	12.1			61607	Is a cattle medicine.
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6 GEORGE V, A. 1916

BULLETIN No. 296—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VANCOUVER—

1914.							
April 29	Dairy Chop....	55008	Vancouver Milling Grain Co., Ltd., Vanc., B.C..	3 tins.	....	Vendors .....	....
" 29	Corn Chop....	55009	Brackman Ker Milling Co., Ltd., Vanc., B.C..	3 "	....	" .....	....
" 29	Oat Feed. ....	55010	" " "	3 "	....	" .....	....
" 29	Dried Brewers Grains.	55011	" " "	3 "	..	British Columbia Breweries Ltd., Vanc., B.C.	....

## DISTRICT OF VICTORIA—

April 24	Dairy Chop....	61901	Vancouver Milling Grain Co., Ltd., Victoria, B.C..	3 lb..	....	Vendors at Vanc., B.C.	....
" 24	Milk Food....	61902	" " "			" .....	....
" 24	Excellall Chop	61903	" " "			" .....	....
" 24	Oat Feed....	61904	Scott & Peden, Stone and Govt.Sts., Victoria, B.C.	3 " ..		5 Brackman Ker Milling Co. Ltd., Victoria, B.C.	....
" 24	Soi Bean Oil Meal.	61905	" " "	3 "	5	" .....	....
" 25	Soi Bean Oil Meal.	61906	Brackman Ker Milling Co., Ltd.	3 "	10	Vendors .....	....
" 25	Chicken Chop.	61907	" " "	3 "	10	" .....	....
" 25	B. & K. Oat Feed.	61908	" " "	3 "	10	" .....	....
" 25	Jersey Dairy Chop.	61909	" " "	3 "	10	" .....	....
" 25	Calf Meal Milk Substitute.	61910	" " "	3 "	10	Blatchford Calf Meal Factory, Waukegan, Ill.	....

## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report. (Is not an expression of opinion.)	Registration No.	Analysis of Sample.	Results of Analysis.					Remarks and Opinion of the Chief Analyst.
			Proteids.	Fat.	Fibre.	Vital Weed Seeds.		
						No. per oz.	Chiefly.	
							No. of Sample	

E. J. MORGAN, INSPECTOR.

			p.c.	p.c.	p.c.			
Reg. No. 130	...	As guaranteed	11.1	4.5	10.8	...	55008	Meets guarantee. Sold
		As found	15.50	3.32	7.4	...		as chop does not re-
" 136	...	136 As guaranteed	9.0	4.0	8.0	...	55009	quire registration.
		As found	12.50	3.32	9.1	...		" "
" 137	...	137 As guaranteed	7.0	3.0	15.0	...	55010	Below guarantee in
		As found	5.69	1.82	24.0	...		proteids, fat, and
"Royal" Branda.	217	As guaranteed	23.6	5.2	15.0	...	55011	fibre.
Reg. No. 217	...	As found	19.69	6.01	14.0	...		Below guarantee in
								proteids.

D. O'SULLIVAN, INSPECTOR.

No Reg. No. on sacks.			10.0	2.0	10.0			
" "	...	As found	12.06	2.84	7.7	...	61901	Sold as chop, meets
" "	...	As found	21.13	3.67	6.9	...	61902	standard.
" "	...	As found	10.0	2.0	10.0	...	61903	Not registered.
" "	...	As found	11.69	5.02	7.3	...	61904	Sold as chop, meets
Reg. No. 137	137	As guaranteed	7.0	3.0	15.0	...	61905	standard.
		As found	12.88	2.88	16.8	...	61906	Meets guarantee.
No Reg. No. on sacks.	...	As found	41.56	5.77	4.7	...	61907	Not registered.
" "	...	As found	51.37	6.18	4.8	...	61908	"
" "	...	As guaranteed	15.0	5.0	5.0	...	61909	Meets guarantee. Sold
" "	...	As found	15.75	4.94	5.6	...	61910	as chop.
Reg. No. 137	137	As guaranteed	7.0	3.0	15.0	...	61901	" "
		As found	6.94	2.04	20.0	...	61902	" "
" 138	138	As guaranteed	18.0	5.0	10.0	...	61903	" "
		As found	18.26	4.36	6.5	...	61904	" "
No Reg. No. on sacks.	(3)	As guaranteed	25.0	5.0	5.0	...	61905	" "
		As found	30.00	5.77	5.6	...	61906	" "

## APPENDIX M.

## BULLETIN No 297—EFFERVESCENT CITRATE OF MAGNESIA.

OTTAWA, November 10, 1914.

J. U. VINCENT, Esq.,  
Deputy Minister of Inland Revenue.

SIR,—I have the honour to hand you a report upon fifty-two (52) samples purchased by our inspectors in Montreal and Toronto as Effervescent Citrate of Magnesia.

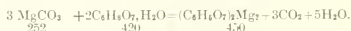
Complaints have reached the department from time to time regarding this preparation, charging that it is not true to name. The results herein reported appear to justify complaint, since none of them contain Citrate of Magnesia, nor is Citrate of Magnesia present after their solution in water. The only salt of magnesia present is the sulphate (Epsom Salt) and the only citrate is the sodium salt. Tartrate of Soda is usually quite as much in evidence as the citrate, and sugar is invariably present to amounts varying from 25 to 50 per cent.

The article, as found on the market is a very pleasant cooling drink, having slightly aperient properties. No fault can be found with it on the ground of harmfulness to health. On the contrary, there can be no doubt of its wholesomeness and desirability especially as a summer drink.

It is unfortunate that the name under which it is offered for sale should be so grossly misleading; and the explanation is doubtless to be found in the fact that Citrate of Magnesia as *Magnesii Citratis Liquor* or *Solution of Magnesium Citrate* has long enjoyed repute as a pleasant and mild aperient. Among the unofficial preparations named in Squire's Companion to the British Pharmacopoeia it is directed to be prepared by dissolving 100 grains of Magnesium Carbonate in a solution of 200 grains of Citric Acid. This leaves 33 grains of Citric Acid in the free state (see footnote), and 178 grains of Citrate of Magnesia in solution. A small amount of a flavouring solution (syrup of lemons), is added, and the whole diluted to 1 pint. Then 40 grains of potassium bi-carbonate is added, causing effervescence, and neutralizing 28 grains of the free citric acid, thus leaving about 5 grains of the free acid to give a pleasant acidity to the drink.

Unless this drink is prepared for immediate use it must be kept in a strong bottle, like those in use for ginger ale or soda water, making it an expensive article, difficult of transportation and unsuitable for preparation in the home.

The magnesium carbonate of the pharmacopoeia is of somewhat uncertain composition. The normal carbonate contains 47.6 per cent of magnesia. Official magnesiun carbonate is required to contain at least 40 per cent of magnesia (the Oxide). If we assume this minimum value, 66.6 parts of such carbonate and 93 parts of citric acid are required to produce 100 parts of Citrate of Magnesia.





## SESSIONAL PAPER No. 14

Carbonate of magnesia is, however, unsuited to the convenient preparation of the citrate on account of its insolubility in water. It follows that, if the laxative citrate of magnesia is required to be present, it must be added as such.

Effervescent Citrate of Magnesia is not mentioned in the British Pharmacopoeia. Effervescent Magnesium sulphate (*Magnesii Sulphas Effervescens*) or Effervescent Epsom salt, is defined, and consists of Magnesium Sulphate, Sodium bi-carbonate, Tartaric acid and Citric acid and Sugar.

Instructions are to heat (50 ounces) crystallized sulphate of magnesia to loss of 23 per cent weight (by which treatment 50 ounces of the crystallized salt containing 48·8 per cent of anhydrous magnesium sulphate and 51·2 per cent water, becomes 38·5 ounces of a partially dehydrated salt containing 63·4 per cent of anhydrous magnesium sulphate and 36·6 per cent water); to mix this with 36 ounces of Sodium bi-carbonate, 19 ounces of Tartaric acid,  $12\frac{1}{2}$  ounces of Citric acid, and  $10\frac{1}{2}$  ounces of sugar. The combination of these articles, weighing 116·5 ounces, is directed to be dried to a weight of about 100 ounces. This treatment, causing a further loss of weight of about 16·5 ounces, results in a product which contains the whole of the magnesium sulphate originally present, together with a somewhat indefinite amount of the Citrate and Tartarate of Soda, produced by the interaction of the free citric and tartaric acids, with the bi-carbonate of soda during the final heating; and a more or less varying quantity of water, this largely depending upon the manner in which the final heating has been conducted. If we assume that the loss of weight in the final heating is chiefly due to loss of water (an assumption which can only be approximately realized, when even the greatest care in manufacture is taken) the final product would have the following composition:—

	Per cent.
Magnesium Sulphate ( $MgSO_4$ ).....	24·4
Sodium bi-carbonate ( $NaHCO_3$ ) .....	33·6
Tartaric acid ( $C_4H_6O_6$ ).....	19·0
Citric Acid ( $C_6H_8O_7$ , $H_2O$ ) .....	12·5
Sugar .....	10·5

In this calculation I have assumed total dehydration of the Sulphate of Magnesia and the loss of a certain amount (2·4 oz.) of carbonic acid from the bi-carbonate of soda. The calculated result can only be taken as an approximation to the facts, since the formation of more or less citrate and tartrate of soda by double decomposition is inevitable. It is, however, sufficiently close to indicate that the commercial article offered as Effervescent Citrate of Magnesia is not to be confounded with the Effervescent Sulphate of Magnesia of the British Pharmacopoeia, which contains approximately 25 per cent of Magnesium Sulphate while the amount of this salt found in the article herein reported varies from less than 1 to about 6 per cent.

It would naturally be expected that an effervescent citrate of magnesia should be analogous in character to the pharmacopoeal effervescent sulphate, substituting only the citrate for the sulphate. In such case, the predominant component should be magnesia in such a form that, when used, this magnesia would be present as citrate.

The United States National Dispensatory of Stille, Maisch and Caspari (I quote from the 5th Edition, 1894) contains the following formula for Effervescent Magnesium Citrate:—

Magnesium Carbonate.....	10 gms.
Citric Acid .....	46 "
Sodium bi-carbonate.....	34 "
Sugar .....	8 "

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The German and French Pharmacopoeias are quoted as giving the same formula, a statement which I have not been able to verify. The U. S. Dispensatory of Wood and Bache (17th Edition, 1895) contains the same formula. In this formula 16·7 grammes of citric acid are required for conversion of the magnesium carbonate into citrate, yielding 17·9 grammes of Magnesium Citrate; 28·3 grammes of citric acid are required to convert the bi-carbonate of soda (34 grammes) into citrate of soda (34·8 grammes), leaving one gramme excess of citric acid in the free state in each 98 grammes of original material. These numbers may, for practical purposes be taken as percentages; and the formula is a good one, resulting in a pleasant effervescent beverage when used as directed.

In the absence of any other recognized formula for Effervescent Citrate of Magnesia, I am disposed to interpret the results of analysis herein recorded by reference to this one.

Determinations of sugar, tartaric acid, citric acid, sulphate of magnesia and bi-carbonate of soda have been made. It is evident that neither tartaric acid nor sulphate of magnesia are called for, nor should they be present in an article which is offered under a name which gives no indication of their presence, but on the contrary, purports to contain only citrate of magnesia; or, if we accept the above formula as authoritative, citrates of magnesia and soda. Approximately, the results of analysis should show citric acid about 45 per cent; bi-carbonate of soda, about 35 per cent, and sugar about 8 per cent.

More or less spontaneous change must occur in a mixture of the kind, and the change will be influenced by the dryness of the original preparation, the care with which it is protected from atmospheric moisture and the length of time since preparation. The analytical numbers quoted in the table represent the article as received by us and must not be taken to indicate exactly the quantities used in manufacture. Generally speaking, it is to be noted that in all the samples, a much higher percentage of sugar is present than the above quoted formula requires. Magnesium sulphate in amount from 1 to 6 per cent is present in all but 8 samples. Tartaric acid is present in all but 3 samples.

The result of this examination is to show that the commercial article sold as Citrate of Magnesia contains no citrate of magnesia. It is, therefore, not true to name and the name under which it is offered is entirely misleading. Its aperient properties are (in nearly all cases) due to the presence of Epsom Salt, and to the sodium salts of citric and tartaric acids.

It is extremely variable in character, sugar forming a principal ingredient. While about 8 per cent sugar is indicated for the Effervescent Citrate of Magnesia of the U. S. National Dispensatory, and about 10 per cent. for the Effervescent Sulphate of Magnesia of the British Pharmacopoeia, I find about 20 per cent to above 50 per cent in the samples now reported.

I find no intentional fraud indicated by these results; and the history of the article, so far as I have been able to follow it, shows a gradual effort to modify the original effervescent citrate so as to produce an article which should be more practicable and should meet the taste of the public while retaining, as far as possible, the refrigerant and aperient properties of the prototype. The name has meantime been retained, but without any purpose of deception; rather, perhaps, for lack of a convenient substitute.

Now that the commercial article has assumed a form in which no citrate of magnesia is present, it must be evident that a change of name is in order. Some manufacturers recognizing this, have suggested that the name *Granular Effervescent Salts* might be adopted. Whether by the use of a non-committal term, like the above, or by

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the use of a truly descriptive name, such as *Effervescent Citro-Tartrate of Soda, with Epsom Salt and Sugar*, it is apparent that something must be done to prevent the misuse of the name citrate of magnesia, at present employed.

✱

The report now submitted will serve to advise the public regarding the true character of the article, as now offered; and the question of a new name for what is widely in demand, and apparently approved by the public, will engage the attention of your Advisory Board.

I beg to recommend publication of this report as Bulletin No. 297.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

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BULLETIN No. 297—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MONTREAL.							
1914.							
Mar. 10	Effervescent Citrate of Magnesia.	62451	J. A. Asselin, 386 Centre St., Montreal.	$\frac{1}{2}$ lb.	20	.....	McEwn, Cameron & Wait, Ltd.
" 10	"	62452	E. Ethier, 461 Centre St., Montreal.	$\frac{1}{2}$ "	30	.....	Lyman's, Ltd....
" 10	"	62453	Armon's Pharmacy, 2710 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	30	.....	McEwn, Cameron & Wait, Ltd.
" 10	"	62454	E. Ethier, 2276 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	30	.....	Lyman's Ltd....
" 10	"	62455	Dr. Letourneau, 2997 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	30	.....	Nat. Drug Co....
" 10	"	62456	Canadian Drug Store, 1787 Notre Dame St., West, Montreal.	3 bots.	75	Fray, Wyeth, Homer, Ltd.	.....
" 10	"	62457	J. H. D'Aigle, 1627 Notre Dame St., West, Montreal.	$\frac{1}{2}$ lb.	25	.....	Lyman's, Ltd....
" 11	"	62458	J. O. Mathieu, 1393 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	30	.....	Nat. Drug Co....
" 11	"	62459	G. M. Lalonde, 1320 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	30	.....	Lyman's, Ltd....
" 11	"	62460	R. Raizenne, 701 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	30	Toronto Pharmacal Co.	.....
" 11	"	62461	McGales' Pharmacy, 545 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	25	Unknown.....	.....
" 12	"	62462	J. Pigeon, 412 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	35	.....	Lyman's, Ltd....
" 12	"	62463	Birks' Pharmacy, 340 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	25	.....	"
" 12	"	62464	H. E. Archambault, 78 Notre Dame St., West, Montreal.	$\frac{1}{2}$ "	25	Toronto Pharmacal Co.	.....
" 12	"	62465	A. LeBeau, 465 St. James St., West, Montreal.	$\frac{1}{2}$ "	25	.....	Lyman's, Ltd....
" 12	"	62466	J. E. H. Quipp, 95 Windsor St., Montreal.	$\frac{1}{2}$ "	30	.....	"
" 12	"	62467	Lyons Cut Rate Drug Store, Catherine and St. Lawrence Sts., Montreal.	1 bot.	65	.....	.....
" 14	"	62468	Pharmacie Robert, Craig and St. Lawrence Sts., Montreal.	$\frac{1}{2}$ lb.	30	Nat. Drug and Chem. Co.	.....
" 14	"	62469	J. H. Nault, 42 St. Catherine St., East, Montreal.	$\frac{1}{2}$ "	25	Unknown.....	.....
" 14	"	62470	Albert's Drug Store, 271 St. Lawrence St., Montreal.	$\frac{1}{2}$ "	35	"	.....

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## EFFERVESCENT CITRATE OF MAGNESIA.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Cane Sugar.	Tartaric Acid.	Citric Acid.	Sulphate of Magnesia.	Bicarbonat of Soda.		
D. J. KEARNEY, INSPECTOR.							
	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	44.6	14.6	12.2	5.6	27.7	62451	Contains no Citrate of Magnesia.
.....	51.0	8.2	13.9	4.5	27.7	62452	" "
.....	41.8	14.8	12.3	5.8	27.8	62453	" "
.....	49.8	8.3	13.4	4.2	27.0	62454	" "
.....	33.0	18.6	14.8	2.2	40.3	62455	" "
.....	20.2	16.3	24.9	1.1	45.2	62456	" "
.....	58.0	None.	19.7	3.5	20.6	62457	" "
.....	34.2	17.9	15.0	1.5	40.6	62458	" "
.....	50.0	10.5	10.2	5.1	26.1	62459	" "
.....	21.0	23.2	17.6	None.	44.8	62460	" "
.....	32.0	18.8	15.8	2.7	40.8	62461	" "
.....	47.5	7.0	13.7	4.5	26.3	62462	" "
.....	22.6	17.2	26.5	1.05	43.0	62463	" "
.....	23.8	22.3	18.5	None.	45.1	62464	" "
.....	47.3	8.1	12.6	4.3	26.3	62465	" "
.....	22.5	16.2	27.1	1.05	46.2	62466	" "
.....	41.1	16.7	11.5	6.0	28.1	62467	" "
.....	32.8	18.2	16.0	2.4	40.4	62468	" "
.....	54.0	None.	18.8	3.5	20.2	62469	" "
.....	58.4	"	20.0	3.5	20.7	62470	" "

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BULLETIN No. 297—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO							
1914.							
Mar. 20	Effervescent Citrate of Magnesia.	62127	E. G. West & Co., 80 George St., Toronto	$\frac{1}{2}$ lb.	13	Vendors.....	
" 20	"	62128	The Lyman Bros. Co., Ltd., 71 Front St., East, Toronto.	$\frac{1}{2}$ "	25	"	
" 20	"	62129	The Robert Simpson Co., Ltd., Queen and Yonge Sts., Toronto.	3 bots.	45		Shorland & Co., Montreal.
" 23	"	62130	The Shuttleworth Chem. Co., Ltd., Wilton and Victoria Sts., Toronto.	$\frac{1}{2}$ lb.	20	Vendors.....	
" 23	"	62131	J. F. Taylor Pharmacal Co., Ltd., 81 William St., Toronto.	$\frac{1}{2}$ "	20	"	
" 23	"	62132	The Moyes Chem. Co., Ltd., 257 Adelaide St., West, Toronto.	$\frac{1}{2}$ "	15	"	
" 23	"	62133	Toronto Pharmacal Co., Ltd., 455 King St., West, Toronto.	$\frac{1}{2}$ "	40	"	
" 24	"	62134	The Nat. Drug and Chem. Co., Ltd., Toronto.	$\frac{1}{2}$ "	15	"	
" 24	"	62135	Liggett's, Ltd., 106 Yonge St., Toronto.	3 bots.	57	H. K. Wampole & Co., Ltd., Perth, Ont.	
" 24	"	62136	The T. Eaton Co., Ltd., Toronto.	3 lots.	45	Vendors.....	
" 24	"	62137	Tamblins, Ltd., 1674 Dundas St., West, Toronto.	$\frac{1}{2}$ lb.	20	E. G. West & Co., Toronto.	
" 24	"	62138	Fred Coward, 402 Spadina Ave., Toronto.	3 jars	30		
May 6	"	62139	H. A. Spotswood, 412 College St., Toronto.	$\frac{1}{2}$ lb.	25	The Moyes Chem. Co., Ltd., Toronto.	
" 6	"	62140	J. W. Struthers Sons, 207 Euclid Ave. Toronto.	$\frac{1}{2}$ "	20	The E. B. Shuttleworth Chem. Co., Ltd., Toronto.	
" 6	"	62141	F. S. Taylor, 292 Spadina Ave., Toronto.	$\frac{1}{2}$ "	25	The Nat. Drug and Chem. Co., Ltd., Toronto.	
" 7	"	62142	Williams Pharmacy, 684 Queen St., West, Toronto.	$\frac{1}{2}$ "	20	E. G. West & Co., Toronto.	
" 7	"	62143	J. W. Lawrence, 996 Queen St., West, Toronto.	$\frac{1}{2}$ "	25	The E. B. Shuttleworth Chem. Co., Ltd., Toronto.	
" 7	"	62144	E. J. Doak, 1470 Queen St., West, Toronto.	$\frac{1}{2}$ "	25	The Toronto Pharmacal Co., Ltd., Toronto.	
" 7	"	62146	G. C. McFarlane, 505 College St., Toronto.	$\frac{1}{2}$ "	25	The Lyman Bros. & Co., Toronto.	
" 7	"	62175	G. W. Ferrier, 233 College St., Toronto.	$\frac{1}{2}$ "	25	H. K. Wampole & Co., Ltd., Perth, Ont.	

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## EFFERVESCENT CITRATE OF MAGNESIA.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Cane Sugar.	Tartaric Acid.	Citric Acid.	Sulphate of Magnesia.	Bicarbonate of Soda.		
H. J. DAGER, INSPECTOR.							
	p.c.	p.c.	p.c.	p.c.	p.c.		
Wessex .....	26.8	14.9	20.3	4.7	42.4	62127	Contains no Citrate of Magnesia.
.....	23.0	22.2	24.4	None.	49.3	62128	" "
.....	41.3	14.8	12.0	6.1	26.3	62129	" "
.....	34.5	14.5	16.1	5.4	30.5	62130	" "
Brown colour due to being overdried.	34.6	18.8	17.5	None.	43.8	62131	" "
.....	23.3	10.6	22.0	2.1	52.0	62132	" "
.....	23.1	21.3	18.6	None.	45.6	62133	" "
.....	33.6	18.6	15.6	2.5	40.6	62134	" "
.....	22.6	18.9	11.5	4.0	40.3	62135	Contains Phosphates. Contains no Citrate of Magnesia.
Reg. No. 94. The P. or P. M. Act.	31.0	19.6	12.5	6.1	32.1	62136	Contains no Citrate of Magnesia.
Reg. No. 130. The P. or P. M. Act.	28.6	15.3	17.0	5.0	39.8	62137	" "
"Standard" Brand, Im- ported and Packaged by Vendor.	26.7	12.0	11.5	5.2	31.9	62138	" "
.....	27.2	13.0	21.9	1.9	59.6	62139	" "
.....	37.6	14.2	16.0	5.4	31.6	62140	" "
.....	45.9	15.1	10.9	5.3	36.8	62141	" "
.....	32.5	17.1	18.0	5.6	42.0	62142	" "
.....	41.8	15.9	16.9	5.7	35.0	62143	" "
.....	27.6	22.2	18.6	None.	50.0	62144	" "
.....	28.3	21.9	20.4	"	47.0	62145	" "
.....	25.7	23.8	10.9	5.9	42.0	62175	Contains Phosphates. Contains no Citrate of Magnesia.

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BULLETIN No. 297—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF HAMILTON—

1914.							
April 16	Effervescent Citrate of Magnesia.	63221	G. F. McDowell, 212 Colborne St., Brantford.	$\frac{1}{2}$ lb.	25	Nat. Drug and Chem. Co., Ltd., Hamilton.	
" 16	"	63222	C. A. C. Cameron, 191 Colborne St., Brantford.	$\frac{1}{2}$ "	20	The Lyman Bros. Co., Ltd., Toronto.	
" 16	"	63223	Higginbotham & Cameron, 373 Colborne St., Brantford.	$\frac{1}{2}$ "	20	The E. B. Shuttleworth Chem. Co., Ltd., Toronto.	
" 21	"	63224	J. H. Smith, Dunnville	$\frac{1}{2}$ "	30	The Nat. Drug and Chem. Co., Ltd., of Canada.	
" 23	"	63225	W. G. Smith, Welland.	$\frac{1}{2}$ "	25	The E. B. Shuttleworth Chem. Co., Toronto.	
" 24	"	63226	J. N. Walker, St. Catharines.	$\frac{1}{2}$ "	25	The Nat. Drug and Chem. Co., Ltd., of Canada.	
" 24	"	63227	F. W. Jeffs, St. Catharines.	$\frac{1}{2}$ "	20	The Moyes Chem. Co., Ltd., Toronto.	
" 29	"	63228	J. S. Macartney, Niagara Falls, Ont.	$\frac{1}{2}$ "	25	The Nat. Drug and Chem. Co., Ltd., Hamilton.	
May 1	"	63229	W. A. Howell, Hamilton	$\frac{1}{2}$ "	20	Unknown ...	
" 1	"	63230	Sweet & Dunlop, Hamilton.	$\frac{1}{2}$ "	25	Toronto Pharmacal Co., Ltd., Toronto.	
" 1	"	63231	W. B. Smith, Hamilton	$\frac{1}{2}$ "	25	E. G. West & Co., Toronto.	
" 1	"	63232	Hennessey Drug Stores, Hamilton.	$\frac{1}{2}$ "	20	The Moyes Chem. Co., Ltd., Toronto.	



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## EFFERVESCENT CITRATE OF MAGNESIA.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Cant Sugar.	Tartaric Acid.	Citric Acid.	Sulphate of Magnesia.	Bicarbonate of Soda.		

H. J. DAGER, ACTING INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	29.0	19.6	15.3	2.8	41.7	63221	Contains no Citrate of Magnesia.
.....	28.2	19.6	15.7	2.8	42.5	63222	" "
.....	30.8	14.5	19.3	5.1	35.5	63223	" "
.....	33.1	20.2	14.2	2.8	41.0	63224	" "
.....	30.7	15.0	19.0	5.0	34.0	63225	" "
.....	39.0	19.8	15.8	2.9	41.5	63226	" "
.....	24.3	13.8	21.1	2.0	56.4	63227	" "
.....	38.3	20.0	15.5	2.7	42.0	63228	" "
.....	45.7	14.9	11.3	5.1	36.8	63229	" "
.....	27.3	22.5	20.0	None.	50.0	63230	" "
.....	31.3	16.7	18.6	3.7	42.3	63231	" "
.....	36.2	19.7	14.9	2.3	41.7	63232	" "

## APPENDIX N.

### BULLETIN No. 298 MILK FROM TOWNS AND VILLAGES.

OTTAWA November 25, 1914.

J. U. VINCENT, Esq.,  
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report dealing with fifty-nine (59) samples of milk, obtained by our inspectors in various towns and villages as locally delivered.

Most of the cities and larger towns of Canada make provision for examination of their own milk supply. This is as it should be, because it is impossible that efficient control of an article so extensively in use, and so liable to change in character dependent upon local causes, could be effectively carried out in any other way. This consideration will also explain why we have not since September, 1907, (See Bulletin No. 142), issued any extended report upon milk.

Standards for legal milk are fixed by an Order in Council dated 3rd November, 1910 (Published as Circular G. 934), and are as follows:—

“Milk, unless otherwise specified, is the fresh, clean and unaltered product obtained by the complete, uninterrupted milking, under proper sanitary conditions, of one or more cows, properly fed and kept, excluding that obtained within two weeks before, and one week after calving, and contains not less than three and one-quarter (3.25) per cent of milk fat, and not less than eight and one-half (8.50) per cent of milk solids, other than fat.”

This definition, as I understand it, is not intended to interfere with, much less to prohibit, the fixing of local standards by any municipality which desires to do this.

There are many parts of Canada in which it should be possible to secure milk of better quality as to fat, and non-fat solids content, than the above quoted standard demands; and, on the other hand, a milk containing less than 3.25 per cent fat, and less than 8.50 per cent non-fat solids may be legally sold, provided that the vendor makes specific claim in accordance with the facts, and that the purchaser consents to the transaction on these terms.

Where, however, no regulations are in force under municipal enactment, the standard fixed by Order in Council, under the Adulteration Act, must govern.

Complaints have been received from time to time, to the effect that the smaller towns and villages of Canada, in which no local inspection, is provided, are supplied with milk of inferior quality, and this department has been asked to look into the matter. Hence the present report.

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The result of this inspection appears to justify complaints and may lead to further inspection in the future. It is, however, greatly to be desired, that towns and villages of any considerable size should undertake for themselves the inspection of their milk supplies. So much of the value of milk as a food depends upon the conditions of its production, the healthy character of the cows, the cleanliness of stables, utensils, etc., and the care taken in its delivery, that occasional inspection, such as can be given from Ottawa, can never compete in satisfactoriness or efficiency with the continuous and systematic inspection that is possible under local authority.

The results of the inspection now reported may be summarized as follows:—

Up to government standard. . . . .	22 samples.
Genuine milk, but dirty. . . . .	3 "
Nearly meet the standard and may be passed. . . . .	8 "
Below standard. . . . .	26 "
Total. . . . .	59 "

Among the twenty-six cases of adulteration, some are much worse than others, and I would specially point out the following cases as meriting penalty:—

	Fat Solids.	Non-fat Solids.	Total Solids.
No. 2370. . . . .	2.89	7.61	10.50
" 2377. . . . .	2.73	7.00	9.73
" 2806. . . . .	1.09	7.38	8.47
" 62374. . . . .	3.51	6.23	9.84
" 62375. . . . .	3.38	6.48	9.86

I beg to recommend publication of this report as Bulletin No. 298.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

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BULLETIN No. 298—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF EAST QUEBEC—

1914.							
June 17	Milk	2481	Charle Saintnechal, Fraserville.	3 pts.	6		
" 17	"	2482	Ernest Roy, Rivière du Loup.	3 "	6		
" 17	"	2483	Benjamin Michand, Rivière du Loup.	3 "	6		
" 17	"	2484	Etienne Roy, Rivière du Loup.	3 "	6		
" 5	"	53388	Louis Têtu, St. Thomas, Que.	3 "	5		
" 6	"	53389	Jos. Beaumont, Montmagny.	3 "	9		
" 6	"	53390	Joseph Bernache, Montmagny.	3 "	5		
" 6	"	53391	Jos. Gaze, Montmagny.	3 "	5		
" 11	"	53392	George Pelletier, L'Islet.	3 "	10		
" 13	"	53394	Alfred Leveque, Ste. Ann.	3 "	10		

## DISTRICT OF WEST QUEBEC—

June 3	Milk	2545	Jos. Vallière, St. Michel.	3 pts.	10		St. Michel, Co. Bellchasse.
" 12	"	2347	Damien Desjardins, St. Jerome, Que.	3 "	9		
" 12	"	2353	Alexis Lucas, St. Jerome, Que.	3 "	9		
" 12	"	2354	Raoul Trudel, St. Jerome, Que.	3 "	9		
" 13	"	2369	Aldene Legare, St. Agathe des Monts.	3 "	10	Vendor	
" 13	"	2370	Wilfrid Groulx, St. Agathe des Monts.	3 "	10	"	
Aug. 5	"	2377	W. Morrison, Lachute.	3 "	12	Fred. Shaw or John Bradely.	
" 5	"	2378	W. G. Walker, Lachute.	3 "	10	G. D. Walker.	
June 12	"	2801	Francois Dumas, Lauzon Comté de Levis.	1 qt.	15	Vendor	
" 12	"	2802	Honoré Turgeon, Lauzon Comté de Levis.	1 "	15	"	
" 12	"	2803	Arthur Turgeon, Lauzon Comté de Levis.	1 "	15	"	
" 12	"	2804	A. Samson, Lauzon Comté de Levis.	1 "	15	"	

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## MILK.

Inspector's Report. (Is not an expression of opinion.	Results of Analysis.						Remarks and Opinion of the Chief Analyst
	Sp. Gr. of Milk.	Total solids.	Fat.	Ash.	Visible Dirt.	No. of Sample.	

## ALP. PELLETIER, INSPECTOR.

		p.c.	p.c.	p.c.		
.....	1·0321	12·21	3·66	0·54	.....	2481 Genuine.
.....	1·0313	14·28	5·59	0·58	.....	2482 " "
.....	1·0310	12·19	3·70	0·55	.....	2483 " "
.....	1·0299	12·26	3·81	0·55	.....	2484 " "
.....	1·0300	11·20	3·94	0·52	.....	53388 Below standard in solids.
.....	1·0306	11·62	4·10	0·53	.....	53389 Nearly up to standard.
.....	1·0302	11·49	4·02	0·59	.....	53390 " "
.....	1·0306	11·43	3·90	0·57	Present ..	53391 Below standard in solids and not clean.
.....	1·0266	12·68	4·61	0·59	.....	53392 Genuine.
.....	1·0313	13·57	4·61	0·58	.....	53394 " "

## O. BROCHU N. CADIEUX, J. E. AUDET, TEMP. INSPECTORS.

.....	1·0347	12·43	4·15	0·62	Present ..	2545 Genuine, but not clean.
.....	1·0510	10·46	3·89	0·60	" ..	2347 Below standard in solids, not clean.
.....	1·0309	10·93	3·69	0·61	" ..	2353 " "
.....	1·0309	11·06	3·89	0·59	" ..	2354 " "
.....	1·0303	13·46	5·81	0·60	.....	2369 Genuine.
.....	1·0309	10·50	2·89	0·57	Present ..	2370 Below standard in solids and fat, and dirty.
.....	1·0263	9·73	2·73	0·49	.....	2377 Below standard in solids and fat.
.....	1·0298	11·88	3·40	0·52	.....	2378 Genuine.
.....	1·0238	11·72	4·70	0·56	.....	2801 Genuine, curdled, sour.
.....	1·0321	11·05	3·64	0·57	..	2802 Below standard in solids.
.....	1·0295	12·73	5·56	0·59	.....	2803 Genuine.
.....	1·0303	12·86	4·61	0·63	.....	2804 " "

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BULLETIN No. 298—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF WEST QUEBEC—

1914.							
June 12	Milk.....	2805	Arthur Pelchat, Notre Dame de Levis.	1 qt..	15	Vendor.....	
" 13	" .....	2806	Gideon Samson, Lauzon Comte de Levis.	1 " ..	15	" .....	
" 13	" .....	2807	Olivier Samson, St. Joseph de Levis.	1 " ..	15	" .....	
" 13	" .....	2808	Louis Carrier, St. Joseph de Levis.	1 " ..	15	" .....	
" 13	" .....	2809	Ernest Leclerc, St. Joseph de Levis.	1 " ..	15	" .....	
" 13	" .....	2810	Joseph Samson, St. Joseph de Levis.	1 " ..	15	" .....	

## DISTRICT OF THREE RIVERS—

May 17	Milk .....	60975	Joseph Coderre, Joliette.	3 pts.	10	Jos. Deblois, Joliette.	
" 18	" .....	60977	Napoleon Coutu, Joliette.	3 " ..	10	D. Nadau, J. Jette, J. St. Jean, I. Malo and A. St. Jean.	
" 18	" .....	60978	S. Vessot et Cie, Joliette.	3 " ..	22	Vendors.....	
" 18	" .....	60979	Hormisdas Masse, Joliette.	3 " ..	15	Vendor.....	
" 20	" .....	60980	George Gravel, St. Felix de Valois.	3 " ..	15	" .....	
" 20	" .....	60981	Alfred Beaulin, St. Jean Matha.	3 " ..	15	" .....	
" 20	" .....	60982	Felix Bellerose, St. Felix de Valois.	3 " ..	15	" .....	
" 20	" .....	60983	Edouard Enos, St. Felix de Valois.	3 " ..	10	" .....	
" 22	" .....	60984	Arthur Peltier, Joliette.	3 " ..	20	" .....	
" 22	" .....	60985	Joseph Coderre, Joliette.	3 " ..	15	" .....	

## DISTRICT OF VALLEYFIELD—

June 2	Milk .....	62370	Alex. Seguin, Hawkesbury, Ont.	3 pts.	15		
" 2	" .....	62371	Alex. Gray, Hawkesbury, Ont.	3 " ..	15		
" 2	" .....	62372	Wm. Hoffman, Hawkesbury, Ont.	3 " ..	15		
" 12	" .....	62373	A. Poirier, Valleyfield	3 " ..	15		

## SESSIONAL PAPER No. 14

## MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Milk.	Total Solids.	Fat.	Ash.	Visible Dirt.		

*Concluded.*

		p. c.	p. c.	p. c.		
.....	1-0285	14-47	6-96	0-54	.....	2805 Genuine.
.....	1-0287	8-47	1-09	0-62	Present...	2806 Below standard in solids and fat Dirty.
.....	1-0323	12-11	3-95	0-61	.....	2807 Genuine.
.....	1-0296	13-82	6-14	0-58	.....	2808 " "
.....	1-0314	11-63	3-77	0-59	.....	2809 Nearly up to standard.
.....	1-0305	11-13	3-54	0-55	.....	2810 Below standard in solids.

DR. V. P. LAVALLEE, INSPECTOR.

.....	1-0153	22-02	14-82	0-47	.....	60975 Genuine.
.....	1-0328	12-47	3-40	0-62	.....	60977 " "
.....	1-0318	11-70	3-25	0-51	.....	60978 Nearly up to standard.
.....	1-0296	11-96	3-53	0-58	.....	60979 Genuine.
.....	1-0315	11-90	3-38	0-57	.....	60980 " "
.....	1-0102	10-45	3-26	0-50	.....	60981 Below standard in solids.
.....	1-0312	13-25	4-78	0-61	.....	60982 Genuine.
.....	1-0287	12-03	4-01	0-51	.....	60983 " "
.....	1-0260	11-63	3-89	0-55	.....	60984 Nearly up to standard.
.....	1-0363	11-90	2-64	0-56	.....	60985 Genuine.

J. J. COSTIGAN, ACTING INSPECTOR.

.....	1-0309	11-72	3-66	0-62	Present...	62370 Genuine, but not clean.
.....	1-0308	10-76	3-32	0-58	"	62371 Below standard in solids, and dirty.
.....	1-0327	11-33	3-42	0-62	.....	62372 Below standard in solids.
.....	1-0321	11-29	3-50	0-61	Present...	62373 Below standard in solids, and dirty

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BULLETIN No. 298—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VALLEYFIELD—

1914.							
June 12	Milk.....	62374	O. Dorias, Valleyfield...	3 pts.	10		
" 12	" .....	62375	Montreal Cotton Co., Valleyfield.	3 "	15		
" 12	" .....	62376	Louis Henault, Valleyfield.	3 "	15		
" 12	" .....	62377	M. Fidla, Valleyfield.....	3 "	15		
" 12	" .....	62378	Montreal Cotton Co., Valleyfield.	3 "	15		
" 12	" .....	62379	F. X. Leduc, Valleyfield	3 "	15		

## DISTRICT OF OTTAWA—

June 2	Milk.....	63401	R. W. Moir, Arnprior...	3 pts.	10	Vendor .....	
" 2	" .....	63402	Thos. Havey, Arnprior...	3 "	10	" .....	
" 2	" .....	63403	H. Gilles, Arnprior.....	3 "	10	" .....	
" 4	" .....	63404	Wm. Duff, Carleton Place	3 "	10	" .....	
" 4	" .....	63405	J. A. Neilson, Carleton Place.	3 "	10	" .....	
" 4	" .....	63406	C. A. Burgess, Carleton Place.	3 "	10	" .....	
" 4	" .....	63407	B. McNeely, Carleton Place.	3 "	10	" .....	
" 6	" .....	63408	C. J. Hollister, Cornwall	3 "	9	" .....	
" 6	" .....	63409	Hollister Bros., Cornwall	3 "	10	Vendors.....	
" 6	" .....	63410	W. Leitch, Cornwall.....	3 "	10	Vendor .....	
" 6	" .....	63451	M. A. Alguire, Cornwall	3 "	10	" .....	



## SESSIONAL PAPER No. 14

## MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Milk.	Total Solids.	Fat.	Ash.	Visible Dirt.		

*Continued.*

		p.c.	p.c.	p.c.			
.....	1 0255	9.84	3.51	0.49	Present...	62374	Below standard in solids and dirty.
.....	1 0300	9.86	3.38	0.55	" .....	62375	" " "
.....	1 0311	10.66	3.74	0.68	.....	62376	" " "
.....	1 0317	10.48	3.62	0.62	Present...	62377	" " and dirty
.....	1 0306	10.35	3.26	0.58	" .....	62378	" " "
.....	1 0311	10.20	3.34	0.61	" .....	62379	" " "

## J. A. RICKEY, INSPECTOR.

.....	1 0311	10.83	3.97	0.58	Present ..	63401	Below standard in solids and dirty.
.....	1 0300	11.49	4.70	0.58	" .....	63402	Nearly meets standard, but is dirty.
.....	1 0328	11.43	3.87	0.55	.....	63403	" " "
.....	1 0312	11.45	4.15	0.54	.....	63404	" " "
.....	1 0322	11.28	4.04	0.57	.....	63405	Below standard in solids.
.....	1 0311	12.09	4.48	0.58	Present ..	63406	Genuine, but dirty.
.....	1 0303	11.40	4.37	0.54	.....	63407	Below standard in solids.
.....	1 0321	11.00	3.81	0.57	.....	63408	" " "
.....	1 0303	11.79	4.78	0.57	.....	63409	Genuine.
.....	1 0309	11.24	4.04	0.53	Present ..	63410	Below standard in solids and dirty.
.....	1 0322	11.36	3.60	0.63	" .....	63451	" " "

## APPENDIX O.

## BULLETIN No. 299 MACARONI, VERMICELLI AND SPAGHETTI.

OTTAWA, January 11, 1915.

J. U. VINCENT, Esq.,  
Deputy Minister Inland Revenue.

SIR,—I beg to advise you that, in consequence of representations made in May and June of last year, our inspectors were instructed to purchase samples of Macaroni, Vermicelli and Spaghetti, as offered for sale in the various Provinces of Canada.

Complaints had been made as to the musty, mouldy and ill-tasting character of these articles; and it was suspected that they had been prepared with mouldy or otherwise decayed flour.

The following samples were sent in, and have been examined as to soundness:—

District of Nova Scotia. . . . .	7	samples.
“ Cape Breton. . . . .	3	“
“ Prince Edward Island. . . . .	6	“
“ New Brunswick. . . . .	8	“
“ Quebec City. . . . .	3	“
“ “ Province. . . . .	19	“
“ Three Rivers. . . . .	20	“
“ Eastern Townships. . . . .	2	“
“ Montreal. . . . .	3	“
“ Valleyfield. . . . .	2	“
“ Ottawa. . . . .	10	“
“ Kingston. . . . .	3	“
“ Toronto. . . . .	15	“
“ Hamilton. . . . .	13	“
“ Windsor. . . . .	3	“
“ Manitoba. . . . .	6	“
“ Saskatchewan. . . . .	4	“
“ Alberta. . . . .	3	“
“ Rocky Mountains. . . . .	3	“
“ Vancouver. . . . .	6	“
“ Victoria. . . . .	3	“
Total. . . . .	142	“

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All samples, with one exception (No. 62272, District of Toronto), have been found of good quality, and clean. The single exception referred to is claimed to be the manufacture of Di Nola & Gentile of Cragnano, Napoli, Italy. The sample was somewhat mouldy, but could not be described as dangerous to the health of the consumer.

It may be explained that the various Italian pastes known as Macaroni, Vermicelli and Spaghetti are made by mixing and kneading a flour of high gluten content, with water, and moulding the resultant dough by pressure through holes in iron plates, or otherwise. Macaroni is the larger of the pipe-shaped products. Vermicelli, the worm-shaped variety, and Spaghetti is a cord-like form, intermediate in size.

German Noodles are much similar in composition to the above pastes, but may contain eggs when they are known as Egg-noodles.

Shredded Wheat is a food material of very similar character, so far as nutrition is concerned; but is usually furnished as a biscuit.

All these foods are highly nutritious, containing as they do, the whole of the proteid matter from wheats selected because of a high gluten content, as well as the whole of the carbohydrates. It is evident that the same variation in actual value may be expected as occurs in the wheats from which they are made. Recorded analyses show the protein to vary from about 11 to 13 per cent. while the carbohydrates average about 75 per cent.

I am not aware that any country has established standards for these foods. Germany has recommended for Egg-noodles, that they should show at least 0.045 p.c. of lecithin-phosphoric acid, and 2 p.c. of Ether Extract. The recommendation has not received legal sanction as yet; and its object is rather the ascertainment of the presence of eggs, than a determination of the value of the food. So long as the (Egg-less) article is sound and does not vary in nutrient value beyond the limits of normal wheats, there is no reason to regard any of these articles as other than true to name. Where eggs are claimed to be present, confirmatory evidence may be required; and it may be necessary to make some further inspection along this line.

In the meantime, I beg to recommend publication of this report as Bulletin No. 299. It may be noted that I have thought it unnecessary to furnish all the details of sale, etc., as is usual; but may state in a general way, that the following manufacturers are represented in the collection; information being furnished by the vendor.

Jos. Travers, Limited.	London, England.
Pfaffman Egg Noodle Co.	Cleveland, Ohio.
Codon.	Marseilles, France.
Bertrand & Cie.	Lyons, France.
Chas. H. Ductory.	Syracuse, N.Y.
Talbot Frères.	Bordeaux, France.
La Cie C. H. Catelli, Ltd.	Montreal.
Cleveland Macaroni Co.	Cleveland, Ohio.
Freihofers Baking Co.	Philadelphia.
Auger Baking Co.	New York.
Vermicelli Factory.	Aix en Provence, France.
Blanc et Fils.	Valence.
A. Carapoli.	Gragnani.
Calo. Salvatore.	Sansoni Termini, Sicily.
Di Nola et Gentile.	Napoli, Italy.
Puccinni.	Lyons, France.
Flower City Macaroni Co.	Rochester, N.Y.
Ferrand & Renaud.	Lyons, France.
Domenico Aula.	Trapani, Italy.
Globe Macaroni Co.	Toronto.
Geo. Foster & Sons, Limited.	Brantford.
Rodier, Fils et Cie.	Bordeaux, France.

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Esterine et Cie. . . . .Marseilles, France.  
 Napoli Macaroni Co. . . . .Toronto.  
 Cosenza & Co. . . . .London, Eng.  
 Sprague Warner & Co. . . . .Chicago, Ill.  
 H. Constant. . . . .St. Boniface, Man.  
 Columbia Macaroni Co. . . . .Ferne, B.C.  
 Ramsay Bros. & Co. . . . .Vancouver, B.C.  
 Alfonso Garofalo. . . . .Gragnano, Italy.  
 Kelly Confection Co. . . . .Vancouver.  
 Marius & Co. . . . .St. Boniface, Man.

I have the honour to be, Sir,  
 Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

## APPENDIX P.

## BULLETIN No. 300—WHITE LEAD IN OIL AS SOLD IN SMALL PACKAGES.

OTTAWA, January 30, 1915.

J. U. VINCENT, Esq.,  
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report upon 104 samples purchased throughout Canada by our inspectors as *White Lead, Ground in Oil*. This collection was made in May and June of last year, and was consequent upon repeated complaints having been made to this department that substitutes for White Lead were widely offered for sale under names which did not correctly describe them, or give the purchaser to understand that he was buying another article than White Lead. Most of the samples now reported were purchased in one-pound tins, this being the usual mode of selling the article as complained of.

The sale of substitutes for an article which, like white lead, is employed for many uses in the arts, cannot be condemned, except where fraud or deception are in evidence. The chief use to which white lead is put, is as a paint material; but subsidiary uses are as a lute in joining pipes; as a whitener in putty; as a filler preparatory to painting; as a lubricant and fixative in dowelling, etc. It would appear, from evidence which has been furnished to me, that it has become customary to regard the article when put up in one and two-pound tins, as intended for these subsidiary uses. White lead, intended for use as a paint material proper is seldom purchased in smaller quantities than ten pounds, and it has come to be accepted that the small package is intended to subserve a purpose for which a cheaper material may be even better suited. The name "White Lead" is retained, not for purposes of deception, but from established custom, and the change in character of the article, has been a gradual one, proceeding from a small substitution of other substances for carbonate of lead, to the total replacement of lead by sulphide of zinc, barytes, and other material.

Growing out of recognition of the facts, as stated, it has become customary to distinguish between *White Lead* and *Pure, or Genuine White Lead*; a distinction entirely at variance with the fundamental principle of the Adulteration Act, which requires that every article shall be true to name, unless specifically labelled to show that it is a compound, mixture or substitute.

The fourth schedule to the Adulteration Act defines *Dry White Lead* as follows: "Basic carbonate of lead prepared by the corrosion of metallic lead." *White Lead in Oil* is defined as "Dry White Lead ground in pure linseed oil, in the proportion of 90 to 92 per cent of the former, to 8 to 10 per cent of the latter."

These definition appear to be sufficiently explicit. They must, however, be read in connection with Section 38 of the Act. (R.S. 1906), as follows: "Every person who marks, brands or labels any article or any package containing any article mentioned in the first column of the fourth schedule to this Act, with the word *pure* or *genuine*, or any word equivalent thereto, or sells or offers or exposes for sale any such article or package, unless such article, or the contents of such package are pure within the meaning of the second column of the said schedule, shall, for every violation, be liable to a penalty not exceeding one hundred dollars."

It is apparent from the results of this inspection that manufacturers and vendors of white lead, in admixture with barytes or other substance, have proceeded upon the assumption that they did not render themselves liable to penalty by labelling such mixtures as *White Lead* so long as they did not describe it as *pure* or *genuine*; and it must be confessed that Section 38 seems to afford some basis for such an interpretation. As I have already pointed out this interpretation is however entirely at variance with the fundamental principle of the Act, which demands, that the purchaser of any article shall be supplied with the thing he demands, and that he shall be made aware, by the label, or otherwise, of the nature of the article supplied to him. This is made clear, so far as foods are concerned by Section 3, which states the conditions under which food shall be deemed to be adulterated, within the meaning of the Act. Sub-section (b) defines as adulteration, the substitution of any inferior or cheaper substance, wholly or in part, for the articles demanded. This is modified by Section 24 (d) which permits the sale of mixtures or compounds, if these are distinctly labelled, in accordance with the facts.

Although Section 3, applies specifically to *foods*, it is reasonable to infer that the principle of explicit and truthful declaration is intended to apply as well to the articles named in Schedule 4, as to foods. In other words; just as when an article is sold as pepper or coffee or butter, it is required to be pepper, or coffee or butter, unmixed with foreign matters, so, an article sold as white lead, should be simply *white lead* and not a mixture of white lead with barytes or other cheaper substance. It is not necessary that the purchaser ask for *pure pepper*; his demand for pepper assumes that pure pepper is wanted, and requires that pure pepper be tendered. So it should not be necessary to ask for *pure white lead*, in order to receive such article. A demand for *white lead* should be sufficient, and if a mixture of white lead with barytes is offered, the article should be labelled in such a way as to show that barytes is present; or at least to show that a mixture, and not simply white lead is offered.

If, in the light of Section 38 of the Act, it is not sufficiently clear that the sale for white lead of a mixture of white lead with barytes, or other cheaper substance constitutes adulteration, then it is evident that the Act must be amended in such a way as to make the matter quite clear. It is certain that purchasers of white lead are continually deceived in being induced to believe that they buy genuine white lead when they are really supplied with a mixture containing 50 per cent or more of barytes; or, in some cases, containing no lead at all.

Sixty-one samples, or more than 58 per cent. of this collection, consists of material sold as white lead, and containing amounts of barytes varying from about 25 to over 90 per cent. Thirty-two of these samples contain over 50 per cent of barytes. All of these are sold as white lead, although it is true that none of them claim in so many words, to be *pure* or *genuine*. I have marked them, in the table, as containing barytes, without declaration. Ten other samples contain no white lead.

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Three other samples are found to contain no lead; but although invoiced by our inspector as white lead, and apparently sold as such, examination of the label shows that these samples are not named white lead, but as zinc white, colonial white, or American white. They must therefore be regarded as genuine. Thirty samples sold as white lead are found to be true to name. The results may be synoptized as below:—

Genuine, as being white lead. . . . .	30 samples.
“ not being labelled white lead. . . . .	3 “
Questionable, as containing barytes or other cheaper substance while sold as white lead. . . . .	71 “
Total. . . . .	104 “

In connection with this subject, the following citation from Lunge and Keane's "Technical Methods of Chemical Analysis," Vol. 111, p. 917, may be put in evidence:—

"Since technically pure white lead is too expensive for many industrial purposes, it is treated with white "fillers", . . . . .

As long as these adulterated qualities are described as such, no objection can be made against them. It must be taken for granted that the comparatively low covering power of these qualities is known. Two methods are in use for denoting these products; special names, or distinguishing appendices (numbers, letters) to the name "white lead." Included in this group are the commercial varieties; Venetian White, which contains equal parts of white lead and heavy spar, or "blanc fixe;" Hamburg White which contains 1 part of white lead and 2 parts of heavy spar; and Dutch White, which contains 1 part of white lead and 3 parts of heavy spar. According to the second method of designation, the technically pure pigment is described as white lead "pure," and the adulterated varieties are denoted by numerals 1, 11, 111, or 1st, 2nd, etc."

The methods of distinction above named would undoubtedly serve the purpose of informing the initiated as to the true composition of the article. But it cannot be claimed that the public generally would be much wiser on being told that the sample offered was white lead number 1 or number 2. The word mixture or compound would seem to be more to the purpose; but honesty requires that the presence and amount of barytes, or other ingredient, should be plainly stated on the label.

In view of the explanations made in the earlier part of this report which seem to dispose of any suspicion of intentional fraud on the part of the manufacturers or dealers; I would respectfully commend to the consideration of this department the following propositions:—

1. That no action be taken in the case of samples herein reported.
2. That Section 38 of the Act be deleted, or so modified by revision, as not to conflict with the fundamental principle of *truth to name*.
3. That the name white lead on the label of any package shall be understood to mean that white lead as defined in Schedule 4, is contained in such package, unless the word *compound* or *mixture* is plainly printed on such label; or the actual content of the package is specifically declared.

I beg to recommend publication of this report as Bulletin No. 300.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,  
Chief Analyst.

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BULLETIN No. 300—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1914.							
June 11	White Lead (ground in oil)	41852	S. A. Crowell & Co., Yarmouth, N.S.	3 tins.	39	Martin Senour Mfrs Co., Montreal.	
" 24	"	41857	Wm. Stairs, Son & Morrow, Halifax, N.S.	3 "	45	Brandram Henderson, Halifax, N.S.	
" 24	"	41858	Jas. Sinmonds, Ltd., Halifax, N.S.	3 "	35	Lewis Berger & Son, London, Eng.	
" 24	"	41859	Martin Senour Co., Halifax, N.S.	3 "	24	Vendors, Montreal.	
" 24	"	41860	" " "	3 "	27	"	

## DISTRICT OF NEW BRUNSWICK—

June 8	White Lead (ground in oil)	59521	Brandram Henderson, Ltd., St. John, N.B.	3 tins.	35	Vendors, Halifax, N.S.	
" 9	"	59522	W. H. Thorne & Co., Ltd., St. John, N.B.	3 "	45	Canada Paint Co., Ltd., Montreal.	
" 16	"	59523	Mills Eveleigh Co., Sussex, N.B.	3 "	45		Sumner Co., Moncton, N.B.
" 26	"	59525	W. F. Dibblee & Son, Woodstock, N.B.	3 "	39		Brandram Henderson, St. John, N.B.
" 18	"	59546	M. A. E. Goggin, Chatham, N.B.	3 "	30	A. Ramsay, Son & Co., Montreal.	

## DISTRICT OF QUEBEC CITY—

May 18	Blanc Plomb.	56266	J. E. Rousseau, 1289 Rue St. Vêlier, Quebec.	3 b'xs.	45	P. D. Dodds Co., Mfrs Montreal.	
" 27	"	56267	Geslin & Belanger, 268 Rue du Roi, Quebec.	3 "	36	Canadian Paint Co., Montreal.	
" 26	"	56268	La Comp. Martineau, 135 Rue St. Joseph, Quebec.	3 "	36	British North America Paint Co.	
" 26	"	56269	M. Hudon, 101 Rue du Pont, Quebec.	3 "	30	" " "	
" 26	"	56270	H. Young & Co., 111 Rue du Pont, Quebec.	3 "	39	A. Ramsay & Son, Montreal.	



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## WHITE LEAD (GROUND IN OIL).

Inspector's Report. Is not an expression of opinion).	Results of Analysis.				—	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sample.		Pigment.				
	Vehicle (Oil).	Solids (Pigment).	Lead soluble in acetic acid estimated as basic carbon- ate.	Residue Insol- uble in Acetic Acid.			

## R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.		
Sold as 2nd quality..	8.6	91.4	None....	Zinc sulphide = 7.18, bary- tes = 92.5.	41852	Is not white lead.
London No. 1 ground in linseed oil.	6.8	93.2	50.83	47.06	41857	Contains barytes, without declaration.
No. 1 Reduced White Lead.	6.2	93.8	73.72	25.94	41858	" "
.....	10.5	89.5	None....	Barite = 90.74 % Zinc sul- phide = 8.32 %	41859	Is not white lead.
" Red Seal " Brand .	7.3	92.7	98.01	0.94	41860	Genuine.

## JNO. C. FERGUSON, INSPECTOR.

.....	9.8	90.2	98.32	0.40	59521	Genuine.
Snow white zinc ....	17.3	82.7	None. .	Zinc oxide = 93.8%.	59522	Sold as zinc white. Gen- uine.
Bought by vendor as best quality White Lead.	5.4	94.6	99.16		59523	Genuine.
London White Lead ground in refined linseed oil.	6.6	93.4	27.68	67.34	59525	Contains barytes, without declaration.
White Lead . . . . .	6.6	93.4	45.92	50.14	59546	" "

## F. X. W. E. BELAND, INSPECTOR.

.....	7.1	92.9	97.88	0.84	56266	Genuine.
.....	11.0	89.0	1.92	Barite = 94.14 % Zinc sul- phide = 4.30 %	56267	Is not white lead.
Sold as White Lead.	7.9	92.1	27.35	72.43	56268	Contains barytes, without declaration.
.....	8.4	91.6	27.79	71.50	56269	" "
.....	9.4	90.6	22.33	77.54 Lead = 24.92% as basic sul- phate.	56270	" "

6 GEORGE V, A. 1916

## BULLETIN No. 300—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF EAST QUEBEC—

1914.							
June	3	Blanc Plomb..	53398 Union Agricol, St. Anne...	3 b'xs.	36	British North America for Canada Paint.	

## DISTRICT OF WEST QUEBEC—

July	13	Blanc Plomb..	2373 Paul Fortier, St. Agathe des Monts.	3 lbs..	30	Brandram Henderson.	
June	3	" " ..	2539 Ad. Laroche, St. Margloire.	3 " ..	27		Herman Young Co., Quebec.
"	3	" " ..	2544 Ant. Labrecque, St. Raphael	3 b'xs.	30		L. H. Herbert..
"	3	" " ..	2546 J. A. Lemieux, St. Michel.	3 lbs.	24	Canadian Oil Co., Ltd.	
"	3	" " ..	2549 Lewis Bros., Ltd.....	3 b'xs.	30	Montreal Rolling Mills Co., Montreal.	

## DISTRICT OF EASTERN TOWNSHIPS—

June	6	Blanc Plomb	2124 W. Couverette, Drummondville.	2 lbs.		Brandram Henderson, Ltd., Montreal.	
"	10	" "	2125 Jos. Dion, Lac Mégantic..	3 b'xs.	45	The Martin Senour Co., Ltd., Montreal.	
"	10	" "	2126 E. J. Planche & Co., Cookshire.	3 "	30	A. Ramsay, & Son Co., Montreal.	
"	11	" "	2127 L. Moreau, St. Malo d'Auckland.	4 lbs.	36	Montreal Rolling Mills Co., Montreal.	
"	23	" "	2128 G. H. Robb, Knowlton.....	3 b'xs.	35	Unknown ..	

## DISTRICT OF MONTREAL—

May	18	White Lead (ground in oil)	58371 Armstrong & Petit 647 Wellington St. Montreal.	3 tins	30	A. Ramsay & Son Co., Montreal.	
"	18	" "	58372 G. A. Poirier, 599 Wellington St., Montreal.	3 "	45	" "	
"	19	" "	58373 Arthur Denis & Co., 431 Wellington St., Montreal.	3 "	30	Martin Senour Co., Toronto.	

SESSIONAL PAPER No. 14

## WHITE LEAD (GROUND IN OIL).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinions. of the Chief Analyst.
	Sample.		Pigment.			
	Vehicle (Oil).	Solids (Pigment).	Lead soluble in acetic acid estimated as basic carbon- ate.	Residue Insol- uble in Acetic Acid.		

## ALP. PELLETIER INSPECTOR.

	p. c.	p. c.	p. c.	p. c.		
.....	7.0	93.0	20.22	79.43	53398	Contains barytes, without declaration.

## N. CADIEUX AND O. BROCHU, TEMPORARY INSPECTORS.

.....	8.5	91.5	53.60	42.80	2373	Contains barytes, without declaration.
.....	6.6	93.4	25.02	73.25	2539	" "
.....	8.1	91.9	26.50	73.38	2544	Contains barytes, without declaration.
.....	11.0	89.0	None.....	Barite = 79.18 %, Zinc sul- phide = 19.82 %.	2546	Contains no lead.
.....	6.9	93.1	98.25	0.60	2549	Genuine.

## J. C. ROULEAU, INSPECTOR.

.....	9.0	91.0	98.58	0.40	2124	Genuine.
.....	10.1	89.9	None.....	Barite = 89.04 %, Zinc sul- phide = 9.92 %.	2125	Contains no lead;
.....	11.4	88.6	48.83	47.24	2126	Contains barytes, without declaration.
.....	6.7	93.3	97.97	0.40	2127	Genuine.
London White Lead	7.6	92.4	54.37	45.16	2128	Contains barytes, without declaration.

## D. J. KEARNEY, INSPECTOR.

.....	6.5	93.5	54.76	42.40	58371	Contains barytes, without declaration.
.....	6.5	93.5	54.16	42.62	58372	" "
.....	10.7	89.3	None.....	Barite = 89.04 %, Zinc sul- phide = 10.34 %.	58373	Contains no lead.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MONTREAL—

1914.							
May 19	White Lead (ground in oil)	58374	M. A. Dubé & Co., Centre St. Montreal.	635 tins.	30	Martin Senour Co., Toronto.	.....
" 19	" "	58375	Beraier Hardware Co., St. Lawrence Blvd.	126 3 "	36	Brandram & Anderson, Montreal.	.....

## DISTRICT OF VALLEYFIELD—

May 13	White Lead ..	62330	D. Courville, Alexandria, Ont.	3 tins.	45	Ottawa Paint Works.	.....
" 13	" ..	62331	E. J. Dever, Alexandria, Ont.	3 " ..	45	Ramsay Son Co.	.....
" 26	" ..	62332	N. Langlois, Valleyfield....	3 " ..	30	B. N. A. Colour Co.	.....
" 27	" ..	62333	Cote & Co., St. Johns, P.Q.	3 " ..	30	.....	.....
" 30	" ..	62334	The Dion Hardware and Furniture Co., St. Lambert, P.Q.	3 " ..	30	.....	.....

## DISTRICT OF OTTAWA—

June 5	White Lead (ground in oil)	63446	Mulhall Hardware Co., Ottawa.	3 tins.	39	Canada Paint Co., Montreal.	Mfrs.....
" 9	" ..	63447	W. Strachan, Queen and Bridge Sts., Ottawa.	3 " ..	30	A. Ramsay, Son & Co., Montreal.	" ..
" 10	" ..	63448	The Gray Harvey Co., Ltd., Rideau St., Ottawa.	3 " ..	45	Montreal Rolling Mills Co., Montreal.	" ..
" 12	" ..	63449	G. Beauchamp, Dalhousie St., Ottawa.	3 lb..	34	" .. Gray Harvey Co., Ottawa.	.....
" 12	" ..	63450	J. Garcan & Cie, 287 Dalhousie St., Ottawa.	2 " ..	18	Ottawa Paint Works, Ottawa.	Mfrs ..

## DISTRICT OF KINGSTON—

May 18	White Lead (ground in oil)	61521	J. B. Bunt & Co., Kingston.	3 lbs..	30	Lowe Bros., Toronto.	.....
" 18	" ..	61522	A. Chacon & Co., Kingston.	3 " ..	30	Canada Standard, Montreal.	.....
" 18	" ..	61523	H. A. Marshall, Kingston...	3 " ..	36	" ..	.....
" 18	" ..	61524	John Corbett, Kingston....	3 " ..	20	Canada Paint Co., Montreal.	.....
" 18	" ..	61525	W. A. Mitchell, Kingston...	3 " ..	30	" ..	.....

## SESSIONAL PAPER No. 14

## WHITE LEAD (GROUND IN OIL).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				—	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sample.		Pigment.				
	Vehicle (Oil).	Solids (Pigment).	Lead soluble in acetic acid estimated as basic carbon- ate.	Residue Insol- uble in Acetic Acid.			

*Concluded.*

	p. c.	p. c.	p. c.	p. c.			
.....	5.5	94.5	6.24	92.96	.....	58374	Contains barytes, without declaration.
.....	7.5	92.5	56.92	40.10	.....	58375	Contains barytes.

## J. J. COSTIGAN, ACTING INSPECTOR.

.....	5.6	94.4	59.63	29.62	Zinc oxide = 9.96%	62330	Contains barytes, without declaration.
.....	8.4	91.6	96.48	1.52	.....	62331	Genuine.
.....	7.4	92.6	20.01	79.54	.....	62332	Contains barytes, without declaration.
London White Lead.	6.6	93.4	49.92	49.50	.....	62333	" "
.....	9.8	90.2	None. ...	Barite = 86.32 %. Zinc sul- phide = 14.26 %.	.....	62334	Contains no lead.

## J. A. RICKEY, INSPECTOR.

.....	7.7	92.3	22.54	76.44	.....	63446	Contains barytes, without declaration.
.....	6.3	93.7	44.32	54.00	.....	63447	" "
.....	5.8	94.2	63.53	34.12	.....	63448	" "
"Tiger" Brand, ...	6.8	93.2	98.27	0.60	.....	63449	Genuine.
Decorators' Pure White Lead ground in linseed oil.	7.5	92.5	95.00	3.76	.....	63450	"

## JAS. HOGAN, INSPECTOR.

.....	7.5	92.5	97.95	0.58	.....	61521	Genuine.
.....	7.8	92.2	99.10	0.28	.....	61522	"
.....	7.0	93.0	98.33	0.36	.....	61523	"
.....	7.6	92.4	98.27	0.40	.....	61524	"
.....	7.9	92.1	98.50	0.38	.....	61525	"

6 GEORGE V, A. 1916  
BULLETIN, No. 300—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1914.							
May 22	White Lead (ground in oil)	62195	Fred Good, 341 Pape Ave., Toronto.	3 cans.	30	Benjamin Moore & Co., Ltd., Toronto.	
" 23	"	62197	The T. Eaton Co., Ltd., Toronto.	3 "	30	"	
" 23	"	62198	The Robt. Simpson Co., Ltd., Toronto.	3 "	39		Brandram Henderson, Ltd., Toronto.
" 23	"	62199	J. W. Patan, 20 Temperance St., Toronto.	3 "	30	British North America Colour Co., Toronto.	
" 23	"	62200	Rice Lewis & Sons, Ltd., Victoria St., Toronto.	3 "	30		Martin, Senour & Co., Ltd.
DISTRICT OF HAMILTON—							
June 5	White Lead, (ground in oil)	63282	M. Weichel & Son, Waterloo, Ont.	3 Cans	30	A. Ramsay Son & Co., Montreal.	Brandram Henderson, Toronto.
" 3	"	63284	The Brampton Hardware, Brampton, Ont.	"	30	British North America Colour Co.	" "
" 4	"	63285	Bond Hardware, Guelph	"	30	" "	
" 5	"	63286	H. Wolfhard & Co., Berlin.	"	45	The Sherwin Williams Co., Montreal.	
" 10	"	63287	Norton Mills Hardware Co., Ltd., 425 Barton St., East, Hamilton.	"	30	Dominion Colour Works, Toronto.	
DISTRICT OF WINDSOR—							
May 26	White Lead	53678	E. & S. Pollard, Petrolia.	3 Tins	45	Pinchin Johnson & Co., Toronto.	
" 26	"	53680	Van Tuyl & Fairbanks, Petrolia.	3 "	38	Unknown	
June 5	"	63908	Myers Hardware Co., Stratford.	3 lbs.	36	Ramsay & Son Co., Montreal.	
" 5	"	63909	J. R. Myers & Sons, Stratford.	"	36	Martin Senour Co., Montreal.	
" 9	"	63911	Kilpatrick Bros., London, Ont.	"	30	Brandram & Henderson, Montreal.	

## SESSIONAL PAPER No. 14

## WHITE LEAD (GROUND IN OIL).

Inspector's Report (Is not an expression of opinion).	Results of Analysis.				—	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sample.		Pigment.				
	Vehicle (Oil)	Solids (Pigment).	Lead soluble in acetic acid estimated as basic carbon- ate.	Residue Insol- uble in Acetic Acid.			

## H. J. DAGER, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
Egyptian White Lead.	8.6	91.4	13.30	Zinc sulphide = 73.60 = 6.02%	Zinc oxide = 9.90%	62195	Contains barytes, without declaration.
Diamond White Lead, guaranteed strictly pure.	6.7	93.3	98.73	0.32	.....	62197	Genuine.
London White Lead.	7.1	92.9	43.25	55.80	.....	62198	Contains barytes, without declaration.
.....	7.7	92.3	26.60	72.76	.....	62199	Chiefly barytes, without declaration.
.....	7.9	92.1	40.72	57.94	.....	62200	Contains barytes, without declaration.

## H. J. DAGER, ACTING INSPECTOR.

.....	6.5	93.5	53.93	42.98	.....	63282	Contains barytes, without declaration.
London White lead..	7.4	92.6	42.67	56.72	.....	63284	" " "
.....	7.5	92.5	27.97	70.84	.....	63285	" " "
Green Seal White Lead.	7.0	93.0	98.46	0.84	.....	63286	Genuine.
Colonial White.....	7.5	92.5	21.64	76.56	.....	63287	Contains barytes, Lead not claimed.

## JNO. TALBOT, INSPECTOR.

Labelled "White Lead".	7.3	92.7	45.86	41.96	Zinc Oxide = 9.78	53678	Contains barytes, without declaration.
Labelled American White, ground in pure Linseed Oil.	10.3	89.7	None.....	Barite = 82.98 %. Zinc sulphide = 13.20 %.	.....	53680	Contains no Lead. Not sold as Lead.
.....	7.3	92.7	49.68	45.92	.....	63908	Contains barytes, without declaration.
Labelled, White Lead, ground in pure Linseed Oil.	9.0	91.0	None.....	Barite = 92.62 %. Zinc sulphide = 7.03 %.	.....	63909	Contains no Lead.
Labelled, White Lead, warranted ground in refined Linseed Oil.	8.6	91.4	56.33	40.40	.....	63911	Contains barytes without declaration.

6 GEORGE V, A. 1916

BULLETIN No. 300—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MANITOBA—

1914.							
May	20	White Lead. (ground in oil)	61126 Linklater Bros., 910 Main St., Winnipeg.	3 Tins	45	G. F. Stephens & Co., Winnipeg.	Mfrs . . . . .
"	20	"	61127 C. Tadman, 866 Main St., Winnipeg.	"	40	" "	" . . . . .
"	20	"	61128 Weir & Wilson, 666 Main St., Winnipeg.	"	45	British North America Colour Co.	.....
"	21	"	61129 Bridgman Hardware Co., 619 Portage Ave., Winnipeg.	"	45	G. F. Stephens & Co., Winnipeg.	.....
"	22	"	61130 Walter Johnson, 581 Sargent St., Winnipeg	"	90	Brandram & Henderson.	.....

## DISTRICT OF SASKATCHEWAN, EAST—

May	20	White Lead..	63742 Armstrong Smith & Down- nell, Regina.	3 Cans	45	Benjamin Moore & Co., Ltd., Chicago, U.S.	.....
"	20	"	63743 The Central Hardware, Regina.	"	50	British N. A. Colour Co.	.....
"	20	"	63745 The Regina Trading Co., Regina.	"	60	G. F. Stephens & Co., Winnipeg.	.....
"	26	"	63754 W. A. Caswell & Co, Ltd., Qu'Appelle.	"	45	" "	.....
"	30	"	63768 C. W. Shearwood & Co., Ltd., Regina.	"	60	British N. A. Colour Co.	.....

## DISTRICT OF SASKATCHEWAN WEST—

June	2	White Lead..	64002 C. Warden & Co., Roul- eau, Sask.	1 lb.	20	British N. A. Colour Co.	.....
"	9	"	64008 Weyburn Hardware Fur. Co., Weyburn, Sask.	1 "	20	Sherwin Williams Co., Toronto	.....
"	9	"	64011 J. A. Hollingren, Estevan, Sask.	1 "	15	British N. A. Colour Co.	.....
"	11	"	64030 Peart Bros. Hardware, Moosejaw, Sask.	1 "	15	Sherwin Williams Co., Toronto.	.....
"	11	"	64031 Ross Hardware Co., Moosejaw, Sask.	1 "	15	Brandram Henderson Ltd., Toronto & Winnipeg.	.....

## DISTRICT OF ALBERTA—

June	17	White Lead (Ground in oil)	51981 Northern Hardware Edmonton.	Co., 3 tins.	60	Sherwin Williams Co., Canada.	.....
"	17	"	51982 Chown Hardware Edmonton.	Co., 3 "	45	G. F. Stephens & Co., Winnipeg.	.....



## SESSIONAL PAPER No. 14

## WHITE LEAD (GROUND IN OIL).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				—	No. of Sample.	Remarks and Opinion [of the Chief Analyst.
	Sample.		Pigment.				
	Vehicle (Oil).	Solids (Pigment).	Lead soluble in acetic acid estimated as basic carbon- ate.	Residue Insol- uble in Acetic Acid.			

## A. C. LARIVIERE, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
.....	5.5	94.5	49.65	49.52	.....	61126	Contains barytes, without declaration.
.....	5.9	94.1	49.66	49.42	.....	61127	" "
.....	8.2	91.8	20.06	80.00	.....	61128	" "
.....	5.2	94.8	49.13	49.82	.....	61129	" "
.....	8.6	91.4	75.60	22.50	.....	61130	" "

## JNO. SCOTT, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
.....	8.1	92.9	98.45	0.88	.....	63742	Genuine.
.....	8.0	92.9	20.42	80.36	.....	63743	Contains barytes, without declaration.
.....	5.9	94.1	49.04	49.86	.....	63745	" "
.....	6.2	93.8	49.34	50.04	.....	63754	" "
.....	7.7	92.3	20.49	79.58	.....	63768	" "

## L. H. HALL, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
.....	7.7	92.3	27.24	72.32	.....	64002	Contains barytes without declaration.
.....	7.6	92.4	98.48	0.68	.....	64008	Genuine.
.....	8.2	91.8	20.25	79.24	.....	64011	Contains barytes without declaration.
.....	8.7	91.3	29.22	48.36 lead 9.96% as basic lead sulphate. 28.80	Zinc Oxide = 20.30%	64030	" "
.....	7.9	92.1	69.78	28.80	.....	64031	" "

## A. W. R. MARKLEY, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
.....	6.9	93.1	97.57	0.82	.....	51981	Genuine.
.....	6.8	93.2	38.00	49.20	Zinc Oxide = 12.12%	51982	Contains barytes without declaration.

6 GEORGE V, A. 1916

BULLETIN No. 300—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ALBERTA—							
1914							
June 17	White Lead (ground in oil)	51983	Connell & Grigg, Edmonton.	3 tins.	45	Brit. Am. Paint Co., Van., B.C.	.....
" 18	"	51984	J. H. Ashdown Hardware Co., Ltd., Calgary.	3 "	45	Pinchin Johnson Co., Toronto.	.....
" 18	"	51985	Marshall Hardware Ltd., Calgary.	3 "	60	Canada Paint Co., Montreal.	.....
DISTRICT OF ROCKY MOUNTAINS—							
June 9	White Lead..	61622	F. E. Archer, Kaslo, B.C.	3 lb..	60	Sherwin Williams, Montreal	.....
" 9	"	61623	Byers Giegerich Co., Kaslo, B.C.	Green 3 "	45	G. F. Stephens & Co., Winnipeg.	.....
" 18	"	61633	Revelstoke Hardware Co., Revelstoke, B.C.	3 "	45	"	.....
July 10	"	61653	N. Wilmers, Trail, B.C.	3 "	45	The Sherwin Williams Co., Toronto.	.....
" 10	"	61654	"	3 "	45	W. J. Pendray & Sons, Vancouver, B.C.	.....
DISTRICT OF VANCOUVER—							
June 1	White Lead..	55028	Vancouver Hardware Co., 623 Granville st., Vancouver, B.C.	3 lbs.	45	The British Am. Paint Co., Victoria, B.C.	.....
" 1	"	55029	F. R. Begg & Co., Ltd., 167 Pender st. west, Vancouver, B.C.	3 "	45	A. Ramsay & Son Co., Montreal.	.....
" 1	"	55030	McLennan-McFenly & Co., Ltd., Vancouver, B.C.	3 "	35	The Martin Senour Co., Montreal.	.....
" 4	"	55031	H. T. Kirk, Columbia st., New Westminster, B.C.	3 "	60	Sherwin Williams, Montreal	.....
" 4	"	55032	R. C. Jameson & Co., Ltd., 1073 Hamilton st., Vancouver, B.C.	3 "	45	R. C. Jameson & Co., Ltd., Montreal.	.....
DISTRICT OF VICTORIA—							
May 28	White Lead..	61945	The Melrose Co., Ltd., 6183 Fort St., Victoria, B.C.	3 lbs.	45	A. Ramsay Son & Co., Montreal.	.....
" 28	"	61948	P. McQuade & Son, 1214 Wharf St., Victoria, B.C.	3 tins. 1 05	5	The Standard Co., Victoria, B.C.	.....

## SESSIONAL PAPER No. 14

## WHITE LEAD (GROUND IN OIL).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sample.		Pigment.			
	Vehicle (Oil).	Solids (Pigment).	Lead soluble in acetic acid estimated as basic carbon- ate.	Residue Insol- uble in Acetic Acid.		

*Concluded.*

	p.c.	p.c.	p.c.	p.c.		
.....	5.9	94.1	98.00	0.66	51983	Genuine.
.....	7.3	92.7	21.88	64.62 lead 10.04 as basic sulphate.	51984	Contains barytes without declaration.
.....	5.7	94.3	98.19	0.40	51985	Genuine.

## THOS. PARKER, INSPECTOR.

.....	6.3	93.7	98.05	0.82	61622	Genuine.
.....	5.7	94.3	49.49	49.16	61623	Contains barytes without declaration.
.....	5.6	94.4	49.23	50.12	61633	" "
Green seal.....	6.6	93.4	98.19	0.48	61633	Genuine.
.....	9.6	90.4	63.82	35.66	61654	Contains barytes without declaration.

## E. J. MORGAN, INSPECTOR.

Labelled No. 1 White Lead.	5.8	94.2	63.51	34.90	55028	Contains barytes without declaration.
Vendor stated after sale that sample was No. 2 Grade and was not pure white lead.	4.2	95.8	52.19	44.24	55029	" "
Vendor stated pre- vious to purchase, that sample was not pure white lead.	10.4	89.6	None.	Barite 90.96 Zinc sulphide 8.51	55030	Contains no lead.
Guaranteed strictly pure.	6.9	93.1	97.78	0.42	55031	Genuine.
Marked No. 1 white lead. Vendor stated previous to pur- chase that sample was not pure.	7.0	93.0	98.30	0.20	55032	"

## D. O'SULLIVAN, INSPECTOR.

.....	8.9	91.1	49.60	47.50	61945	Contains barytes, without declaration.
.....	7.7	92.3	99.08	0.42	61948	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Vendor.

DISTRICT OF VICTORIA—

1914.							
May 28	White Lead (ground in oil)	61949	E. B. Marvin, 1202 Wharf St., Victoria, B.C.	3 tins.	35	W. J. Poudray & Sons, Victoria, B.C.	.....
" 28	"	61951	Victoria Hardware Co., 639 Johnston St., Victoria, B.C.	3 "	60	British American Paint Co., Victoria, B.C.	.....
June 6	White Lead in oil.	61961	Mellor Bros., Ltd., 819 Broughton St., Victoria, B.C.	3 lbs.	30	Wilkinson, Heyward & Clark, London.	.....

DISTRICTS OF EAST QUEBEC, WEST QUEBEC,

June 11	White Lead ..	2014	A. L. Pelletier, Riviere du Loup.	3 lbs.	36	The Martin-Senour Co.	.....
" 23	"	2121	Smith, Flannery & Jaune Sutton.	3 "	35	A. Ramsay & Son Co., Montreal.	.....
Aug. 5	"	2384	McInat & Son, Lachute....	3 tins.	30	St. Lawrence Colour Works, 622 Inspector St., Montreal.	.....
May 16	"	60956	W. Bonin, St. Felix de Valois.	3 "	27	A. Ramsay & Son, 622 Inspector Street, Montreal.	.....
" 25	"	60969	S. Costelleau, Joliette ...	"	45	British North America Co., Montreal.	.....
June 9	"	2006	L. Union Agricol, St. Paschal	3 lbs.	45	The Sherwin-Williams Co.	.....
May 22	"	60968	Edmond Wodum, Joliette..	3 tins.	45	Ramsay & Son, Montreal.	.....
" 16	"	60957	J. A. Asselin, St. Felix de Valois.	3 "	30	A. Ramsay & Son, 622 Inspector Street, Montreal.	.....

## SESSIONAL PAPER No. 14

## WHITE LEAD (GROUND IN OIL.)

Inspector's Report. (Is not an expression of opinion.	Results of Analysis.				No. of Sample	Remarks and Opinion of the Chief Analyst.
	Sample.		Pigment.			
	Vehicle (Oil).	Solids (Pigment).	Lead soluble in acetic acid estimated as basic carbon- ate.	Residue Insol- uble in Acetic Acid.		

*Concluded*

	p. c.	p. c.	p. c.	p. c.			
.....	5.5	94.5	62.35	36.56	.....	61949	Contains barytes, without declaration.
"Bapeo" Pure White Lead.	6.0	94.0	98.70	0.60	.....	61951	Genuine.
.....	7.4	92.6	99.16	0.14	.....	61961	"

## EASTERN TOWNSHIPS AND THREE RIVERS.

.....	10.4	89.6	None.	90.76	Barytes zinc sul- phide 8.35	2014	Contains no lead.
.....	6.3	93.7	52.7	45.58	.....	2121	Contains barytes, without declaration.
.....	5.9	94.1	51.55	46.02	.....	2384	" "
.....	6.2	93.8	53.64	43.04	.....	60956	" "
.....	7.7	92.3	24.9	74.32	.....	60969	" "
.....	6.6	93.4	98.0	0.40	.....	2006	Genuine.
.....	7.3	92.7	59.8	37.8	.....	60968	Contains barytes, without declaration.
.....	10.8	89.2	49.0	48.0	.....	60957	" "

## APPENDIX Q.

### BULLETIN No. 301—WHITE PAINT.

OTTAWA, 5th February, 1915.

J. U. VINCENT, Esq.,  
Deputy Minister Inland Revenue,

SIR,—I beg to hand you a report dealing with 116 samples purchased by our inspectors, as White Paint, during May and June of last year. This may be regarded as supplemental to my recent report on the subject of White Lead. (Bull. No. 300.)

In the matter of White Paint we have no standard requirement. This article is generally assumed to consist of white lead, ground in oil, and further diluted with linseed oil and turpentine, with or without so-called dryers, to the proper consistency for convenient application with a brush. White Lead is frequently replaced by oxide or sulphide of zinc, a pigment which while it does not possess the covering power of white lead has some advantages over this. The chief advantage is that where sulphuretted hydrogen is present, the result is to blacken lead paints, while zinc is not affected in this way. We may therefore assume that the normal pigments, which may occur in white paint, that may be regarded as genuine, are either basic carbonate of lead (white lead), or oxide or sulphide of zinc, or a mixture of these.

Twenty-eight (28) samples of this collection are found to contain white lead as their principal pigment. Thirty samples (30) contain zinc oxide or sulphide, and nine (9) samples contain lead and zinc in admixture. If these be regarded as genuine, then sixty-seven (67) samples constituting fifty-eight per cent (58%) of the collection are found to be genuine.

Barytes or sulphate of barium often called Heavy Spar is a much cheaper substance than either lead or zinc pigments. It is much used as a filler in white paint and cannot be regarded as an adulterant if the fact of its presence is declared on the label. Thirty-five (35) samples are found to consist chiefly of barytes so far as the pigment is concerned. Fourteen (14) others contain large amounts of barytes in

## SESSIONAL PAPER No. 14

admixture with more or less lead or zinc. All these samples may be regarded as questionable since the presence of the cheaper articles is not declared on the label, nor indicated in any way to the purchaser.

The following statement recapitulates what I have said:—

Pigment essentially white lead.. . . .	28	samples.
“ “ oxide or sulphide of zinc.. . . .	30	“
“ mixtures of lead and zinc.. . . .	9	“
“ lead and zinc with barytes.. . . .	14	“
“ chiefly barytes.. . . .	35	“
<hr/>		
Total.. . . .	116	“

Inasmuch as we have no legal standard for white paint I cannot ascribe adulteration in a legal sense to any of these samples; but the work now put on record will be of use to the public in making known the character of white paint as offered in the Canadian Market.

I beg to recommend publication of this report as Bulletin No. 301.

I beg to remain, Sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF NOVA SCOTIA—

1914.								
June 11	White Paint	41851	E. K. Spinney, Yarmouth, N. S.	3 tins.	36	Brandram Henderson, Ltd., Montreal.	Mfrs.....	Pure White.
" 24	" ..	41853	Wm. Stairs Son, Morrow, Halifax, N. S.	3 "	39	Farquhar & Gill, Scotland.	" .....	"Scotia" Brand.
" 24	" ..	41854	Wm. Robertson & Son, Halifax, N. S.	3 "	39	Burrells Co., London, Eng.	" .....	Brand 41.....
" 24	" ..	41855	Jas. Simmonds, Ltd. Halifax, N. S.	3 "	39	Lewis Berger & Sons, London, Eng.	" .....	"Rose" Brand.
" 17	" ..	41856	S. A. Crowell & Co., Yarmouth, N. S.	3 "	39	Martin Senour Co. Montreal.	" .....	Sold as No. 2 quality, inside white.

## DISTRICT OF NOVA SCOTIA—

Sept. 12	White Paint	53721	Thompson & Sutherland, New Glasgow, N.S.	3 tins.	54	Sherwin Williams Co., Montreal.	Mfrs.....	Family.....
" 12	" ..	53722	" " "	3 "	30	The Union Paint Works, Montreal.	" .....	Pure White...
" 12	" ..	53723	J. S. Fraser, New Glasgow, N.S.	3 "	60	The Martin Senour Co., Ltd. Montreal.	" .....	Labelled 100% pure outside paint.
" 12	" ..	53724	" " "	3 "	30	The William Hill Co., Montreal.	" .....	.....
" 18	" ..	53725	Abraham Migette, Tracadia, N. S.	3 "	36	Burrell Paint Co., London, Eng.	Wm. Robinson, Halifax, N.S.	Labelled snow white zinc..

## DISTRICT OF NEW BRUNSWICK—

June 8	White Paint	59516	Brandram Henderson Ltd., St. John N. B.	3 tins.	55	Vendors .....	.....	"English White Paint" Brand.
" 9	" ..	59517	W. H. Thorne & Co., Ltd., St. John, N. B.	3 "	60	Martin Senour Paint Co., Montreal.	.....	Inside paint..
" 16	" ..	59518	W. S. Fairweather, Sussex, N. B.	3 "	45	Sherwin Williams Co., Ltd. Montreal.	.....	Family.....
" 17	" ..	59519	Summer Co., Ltd., Moncton, N. B.	3 "	30	Bergers Ltd., London.	.....	White....
" 18	" ..	59520	M. A. E. Goggin, Chatham, N. B.	3 "	45	A. Ramsay & Son, Co., Montreal.	.....	Uicorn Brand.



## SESSIONAL PAPER No. 14

## WHITE PAINT.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Weight in Ounces.			Vehicle.	Pigment.	Analysis of separated dry pigment.						
Total.	Tin.	Paint.			Loss on Ignition.	Residue insoluble in Nitric Acid.	Lead, (metal).	Found.	Found in Residue		

## R. J. WAUGH, INSPECTOR.

See	No.		p. c.	p. c.	p. c.	p. c.	p. c.				
		62,339	.....	.....	.....	.....	.....	.....	.....	41851	Essentially white lead.
18.5	2.75	15.75	23.5	76.5	2.37	82.50	2.58	Zinc.	Barium.	41853	Chiefly barytes.
18.6	2.9	15.7	22.0	78.0	1.59	86.15	1.83	"	"	41854	"
18.9	2.8	16.1	22.7	77.3	0.81	84.70	2.99	"	"	41855	"
20.5	2.7	17.8	37.0	63.0	4.25	57.67	3.99	"	"	41856	"

## W. A. PETIPAS, TEMPORARY INSPECTOR.

See	No.										
		61,519	.....	.....	.....	.....	.....	.....	.....	53721	Essentially zinc oxide.
		56,262	.....	.....	.....	.....	.....	.....	.....	53722	Lead and barytes.
		51,977	.....	.....	.....	.....	.....	.....	.....	53723	Chiefly lead and zinc.
		2,017	.....	.....	.....	.....	.....	.....	.....	53724	Chiefly barytes.
		41,854	.....	.....	.....	.....	.....	.....	.....	52725	"

## JOHN C. FERGUSON, INSPECTOR.

24.25	3.15	21.10	30.3	69.7	10.63	1.80	52.60	Zinc.	.....	59516	Essentially white lead.
		58,367	.....	.....	.....	.....	.....	.....	.....	59517	Chiefly barytes.
		61,519	.....	.....	.....	.....	.....	.....	.....	59518	Essentially zinc oxide.
19.25	2.75	16.50	21.8	78.2	0.96	86.36	2.42	Zinc.	Barium.	59519	Chiefly barytes.
		58,369	.....	.....	.....	.....	.....	.....	.....	59520	Essentially zinc.

6 GEORGE V, A. 1916

BULLETIN No. 301—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC CITY—								
1914.								
May 18	Peinture Blanche,	56261	J. E. Rousseau, 1289 Rue St. Valier, Quebec.	3 boît.	45	Victor Paint Co., Montreal.	Mfrs. ....	699 inside. ....
" 18	" ..	56262	F. E. Tobin, 1215 rue St. Valier, Quebec.	3 "	39	Union Paint Works.	Unknown...	Pure White...
" 18	" ..	56263	P. E. Kirouack, 1105 rue St. Valier, Quebec.	3 "	90	Brandram Henderson.	Hen- Mfrs. ....	.....
" 19	" ..	56264	J. F. Lapointe, 7 rue. Dollard, Que.	7 3 "	36	The London Paint Co., Montreal.	Unknown...	Pure White Paint.
" 19	" ..	56265	Edouard Morency, 24 Rue Desrocher, Quebec.	3 "	45	The Victor Co., Montreal.	Samson & Filion.	Inside White, 699.
DISTRICT OF EAST QUEBEC—								
June 12	Peinture Blanche.	53593	A. Tardis, St. Louise.	3 bts.	42	Victoria Paint and Colour Co., Montreal.	.....	(White).....
" 3	" ..	2003	A. Boucher, Pacome.	St. 3 lbs.	45	The Georgia Turpentine Co.	.....	Inside White..
" 10	" ..	2010	Georges Michaud, St. Alexandre.	3 "	30	P. Dodd & Co.	.....	Island City, 26.
" 16	" ..	2017	F. X. Roy, Philippe de Neri.	St. 3 "	30	The William Mills Co.	.....	Inside White, 860.
DISTRICT OF WEST QUEBEC—								
June 10	Peinture Blanche.	2344	Alexandre Ville-neuve, St. Jerome, P.Q.	3 lbs.	38	Victoria Paint and Colour Co., Montreal.	.....	(White). ...
" 10	" ..	2345	Wilfrid Mayer, Jerome, P.Q.	St. 3 "	45	The Sherwin Williams Co.	.....	Family. ....
July 13	" ..	2367	Paul Fortier, Agathe des Monts.	St. 3 "	60	The Imperial Varnish and Colour Co., Ltd.	.....	Flat White...
Aug. 5	" ..	2382	Paul Georges, La chute.	La 3 "	50	Brandram Henderson, Ltd., Montreal.	.....	Pure White...
June 3	" ..	2537	Jos. Pigeon, Magloire.	St. 3 "	45	The London Paint Works Co.	.....	Shield Brand, White.
" 3	" ..	2542	F. X. Bolduc, Raphael.	St. 3 "	36	Victoria Paint and Colour Co., Montreal.	.....	White.....

## SESSIONAL PAPER No. 14

## WHITE PAINT.—

Results of Analysis.										Remarks and Opinion of the Chief Analyst.
Weight in Ounces.			Vehicle.	Pigment.	Analysis of separated dry pigment.					
Total.	Tin.	Paint.			Loss on Ignition.	Residue Insol- uble in Nitric Acid.	Lead (metal).	Found.	Found in Residue.	
F. X. W. E. BELAND, INSPECTOR.										

F. X. W. E. BELAND, INSPECTOR.

			p. c.	p. c.	p. c.	p. c.	p. c.			
See	No.	56265	.....	.....	.....	.....	.....	Alum- inium	.....	56261 Chiefly barytes.
17.3	2.2	15.1	31.5	68.5	6.71	38.59	15.28	Zinc.. Bar- ium.	.....	56262 Lead and barytes.
See	No.	63435	.....	.....	.....	.....	.....	.....	.....	56263 " "
16.85	2.4	14.45	30.1	69.9	5.00	46.28	15.67	Zinc.. Bar- ium.	.....	56264 " "
18.30	2.7	15.6	42.3	57.7	0.93	58.18	6.54	Zinc and Alum- inium	.....	56265 Chiefly barytes.

ALP. PELLETIER AND F. X. ROY, TEMPORARY INSPECTORS.

19.0	2.5	16.5	39.7	60.3	5.06	47.19	9.21	Zinc. Bar- ium.	.....	53393 Chiefly barytes.
16.7	2.25	14.45	39.0	61.0	2.11	54.91	6.85	Zinc and alum- inium.	.....	2003 " "
16.0	2.75	13.25	55.0	45.0	8.22	59.06	1.80	Zinc.	.....	2010 " "
16.0	2.4	13.6	42.3	57.7	2.06	52.16	8.21	" "	.....	2017 " "

N. CADIEUX AND D. BROCHU, TEMPORARY INSPECTORS.

See	No.	53393	.....	.....	.....	.....	.....	.....	.....	2344 Chiefly barytes.
See	No.	61519	.....	.....	.....	.....	.....	.....	.....	2345 Essentially zin c oxide.
24.0	2.9	21.1	26.3	73.7	2.61	53.51	2.38	Zinc. Silica.	.....	2367 Chiefly barytes.
See	No.	62339	.....	.....	.....	.....	.....	.....	.....	2382 Essentially white lead.
19.0	2.4	16.6	30.4	69.6	5.64	37.14	2.43	Zinc. Bar- ium.	.....	2537 Chiefly barytes and zinc.
See	No.	53393	.....	.....	.....	.....	.....	.....	.....	2542 Chiefly barytes.

Date of Collection.	Name of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF WEST QUEBEC—

1914.								
June	3	Peinture Blanche ..	2543 Ant. Labrecque, St. Raphael	3 bts.	36	Alexandra .....		White.. ..
"	3	" ..	2550 Jos. Langlois, Armagh.	3 " ..	42	A. Ramsay Son Co.		Unicorn Brand, 891.
"	3	" ..	2554 Onesime Noel, Armagh.	3 " ..	39	Canada Paint Co.		

## DISTRICT OF EASTERN TOWNSHIPS—

June	8	Peinture Blanche ..	2118 N. Pelletier and Fils, Drummondville.	3 lbs	50	A. Ramsay & Co., Montreal.		Unicorn Brand
"	10	" ..	2119 J. S. Marceau & Freres, Lac Megantic.	3 " ..	54	Brandram Henderson Ltd., Montreal.		Inside White..
"	10	" ..	2120 E. J. Planche & Co., Cookshire.	3 " ..	45	The Sherwin Williams' Co., Ltd., Montreal		Family. ....
"	26	" ..	2122 Beauvoyeur Lalime, St. Hyacinth.	3 " ..	45	The Canada Paint Co., Ltd., Montreal		Outside White

## DISTRICT OF MONTREAL—

May	18	White Paint.	58366 A. Lemarre, Hibernia St., Montreal.	3 tins	53	Canada Paint Co., Ltd., Montreal.		No. 130.....
"	18	" ..	58367 A. LeBlanc, Hibernia St., Montreal.	3 " ..	60	The Martin Senour Co., Toronto.		Inside Paint..
"	18	" ..	58368 Armstrong & Petit, 647 Wellington St., Montreal.	3 " ..	45	McArthur Irwin Ltd., Montreal.		Crown Diamond 25.
"	18	" ..	58369 G. A. Poirier, 599 Wellington St., Montreal.	3 " ..	45	A. Ramsay, & Son, Co., Montreal.		Unicorn Brand
"	19	" ..	58370 Desroches & Co., 268 Centre St., Montreal	3 " ..	1.20	The Sherwin Williams Co., Montreal.		China Gloss, White.

## DISTRICT OF VALLEYFIELD—

May	18	White Paint.	62335 D. Courville Alexandria, Ont.	3 tins	60	Lowe Bros., Ltd.		Inside Gloss White, 329.
"	26	" ..	65336 Besner & Chaste Valleyfield, P.Q.	3 " ..	45	Onyx Paint Co.		Outside White

## SESSIONAL PAPER No. 14

## WHITE PAINT—

Results of Analysis.										Remarks and Opinion of the Chief Analyst.
Weight in Ounces.			Vehicle	Pigment.	Analysis of separated dry pigment.					
Total.	Tin.	Paint.			Loss on Ignition.	Residue Insol- uble in Nitric Acid.	Lead (metal).	Found.	Found in Residue.	

*Concluded.*

			p. c.	p. c.	p. c.	p. c.					
16.75	2.6	14.15	56.5	43.5	15.61	29.25	32.92	Zinc.	Bar- ium.	2543	Lead and barytes.
See	No.	58269	.....	.....	.....	.....	.....	.....	.....	2550	Essentially zinc.
19.25	2.75	16.5	45.8	54.2	4.85	48.07	6.18	Zinc.	Bar- ium.	2554	Chiefly barytes.

## J. C. ROULEAU, INSPECTOR.

See	No.	58369	.....	.....	.....	.....	.....	.....	.....	2118	Essentially Zinc Oxide.
17.2	2.25	14.95	34.8	65.2	11.58	3.03	55.96	Zinc.	.....	2119	" White Lead.
See	No.	61519	.....	.....	.....	.....	.....	.....	.....	2120	" Zinc Oxide.
20.0	2.7	17.3	53.3	46.7	2.61	55.47	0.20	Zinc.	Bar- ium.	2122	Chiefly Barytes.

## D. J. KEARNEY, INSPECTOR.

19.25	2.75	16.5	44.7	55.3	5.20	47.96	8.46	Zinc.	Bar- ium.	58366	Chiefly Barytes.
19.25	2.6	16.65	52.0	48.0	2.49	50.82	2.95	"	"	58367	"
19.3	2.3	17.0	32.6	67.4	6.55	28.66	28.54	"	"	58368	Barytes and Lead.
18.25	2.8	15.45	44.6	55.4	7.25	6.39	1.69	"	Silica	58369	Essentially Zinc.
32.5	3.75	28.75	49.5	50.5	6.34	7.80	2.21	"	"	58370	"

## J. COSTIGAN, INSPECTOR.

19.1	2.75	16.35	52.2	47.8	2.86	6.26	1.27	89.92 Zinc Oxide.	Bar- ium.	62335	Essentially Zinc.
13.0	2.5	10.5	53.3	46.7	8.85	25.98	1.94	Zinc.	Silica	62336	" Zinc and Barytes.

6 GEORGE V, A. 1916

BULLETIN No. 301—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF VALLEYFIELD—

1914.								
May 26	White Paint	62337	N. Langevin Valleyfield, P.Q.	3 tins.	38	Canada Paint Co.		No. 130.....
" 26	"	62338	V. Leger, Valleyfield, P.Q.	3 " "	45	Victoria P. & C. Co.		(White).....
" 27	"	62339	Côté & Cie St. Johns, P.Q.	3 " "	45	Brandram & Henderson.		Pure White...

## DISTRICT OF OTTAWA—

June 2	White Paint.	63431	Griffin & Brennan, Arnprior.	3 tins	60	The Sherwin Williams Co., Montreal.	Mfrs. ....	Labelled. This is a Linseed Paint, Family Brand.
" 5	"	63432	Mulhall Hardware Co., Ottawa.	3 " "	54	Canada Paint Co., Montreal.	" .....	"The Evermore Brand.
" 8	"	63433	W.S. Howe, Bronson Ave., Ottawa.	3 " "	45	Ramsay & Son Co. Montreal.	" .....	"Unicorn" Brand.
" 9	"	63434	Cuzner Hardware Co., Ltd., Queen St., West.	3 " "	75	Pinchin Johnson Co., Ltd., Toronto.	" .....	"Minerva" Brand.
" 10	"	63435	John O'Toole, Rideau St., Ottawa.	3 " "	45	Brandram Henderson, Montreal.	" .....	"Anchor"

## DISTRICT OF KINGSTON—

May 18	White Paint	61516	J. B. Bunt & Co., Kingston.	3 tins.	60	Lowe Bros., Toronto.		
" 18	"	61517	A. Chown & Co., Kingston.	3 " "	54	Canada Paint Co., Montreal.		No. 131. ....
" 18	"	61518	H. W. Marshall, Kingston.	3 " "	75	"		Outside Gloss White.
" 18	"	61519	John Corbett, Kingston.	3 " "	60	Sherwin Williams, Montreal.		Family Paint.
" 18	"	61520	W. A. Mitchell, Kingston.	3 " "	60	Imperial Varnish and Colour Co., Ltd., Toronto.		Outside White

## DISTRICT OF TORONTO—

May 22	White Paint	62190	F. H. Moses, 352 Broadview Ave., Toronto.	3 cans.	75	Canada Paint Co., Ltd., Toronto.		Elephant, 131.
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## SESSIONAL PAPER No. 14

## WHITE PAINT.—

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Weight in Ounces.					Analysis of separated dry pigment.						
Total.	Tin.	Paint.	Vehicle.	Pigment.	Loss on Ignition.	Residue Insol- uble in Nitric Acid.	Lead (metal).	Found.	Found in Residue.		

*Concluded.*

			p. c.	p. c.	p. c.	p. c.	p. c.				
19.0	2.75	16.25	60.8	39.2	2.26	54.48	1.45	Zinc.	Barium.	62337	Chiefly Barytes.
See	No.	53393	.....	.....	.....	.....	.....	.....	.....	62338	"
17.25	2.5	14.75	35.9	64.1	11.10	2.95	53.63	Zinc	.....	62339	Essentially White Lead.

## J. A. RICKEY, INSPECTOR.

See	No.	61519	.....	.....	.....	.....	.....	.....	.....	63431	Essentially Zinc Oxide.
21.6	2.7	18.9	37.6	62.4	5.30	47.75	7.67	Zinc.	Barium.	63432	Barytes, Lead and Zinc.
18.75	2.25	16.50	42.65	57.4	.....	See	No.	58369	.....	63433	Essentially Zinc Oxide.
See	No.	53677	.....	.....	.....	.....	.....	.....	.....	63434	Chiefly Lead.
17.25	2.4	14.85	27.6	72.4	5.41	35.82	37.14	Zinc.	Barium.	63435	Lead and Barytes.

## JAS. HOGAN, INSPECTOR.

See	No.	55025	.....	.....	.....	.....	.....	.....	.....	61516	Chiefly lead.
See	No.	62337	.....	.....	.....	.....	.....	.....	.....	61517	" barytes.
21.75	2.7	19.05	41.7	58.3	10.13	4.15	42.15	Zinc.	.....	61518	Essentially white lead.
16.2	2.7	13.5	81.3	18.7	3.90	10.28	3.64	83.30 % zinc oxide.	Silica.	61519	" zinc oxide.
See	No.	55027	.....	.....	.....	.....	.....	.....	.....	61520	Lead and zinc.

## H. J. DAGER, INSPECTOR.

See	No.	62337	.....	.....	.....	.....	.....	.....	.....	62190	Chiefly barytes.
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6 GEORGE V, A. 1916

BULLETIN No. 301—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF TORONTO—

1914.								
May	22	White Paint.	62191 W. T. Moas, 428 Spadina Ave., Toronto.	3 cans	54	The Sherwin Williams Co., Ltd., Toronto.	.....	Family.....
"	22	"	62192 John Coslor, 628 Queen St. west, Toronto.	3 "	60	Lowe Bros. Ltd, Toronto.	.....	Lowe Bros. High Standard Liquid White Paint, 328.
"	22	"	62193 J. Ivory, 682 Queen St. west, Toronto.	3 "	60	Pinchin Johnson Co., Ltd., Toronto.	.....	Pure ready prepared Minerva Paint.
"	22	"	62196 F. A. J. Hunt, 1022 Gerrard St. east, Toronto.	3 "	69	The Martin Senour Co., Ltd., Montreal.	.....	Pure White Lead. Zinc and colour No. substitutes 100% pure Inside Gloss.

## DISTRICT OF HAMILTON—

June	3	White Paint	63279 J. A. Henderson, Brampton.	3 cans.	60	The Sherwin Williams Co., Montreal.	.....	Family.....
"	4	"	63280 R. F. Scott, Guelph	3 "	69	The Martin Senour Co., Toronto.	.....	100% Pure White Inside White
"	5	"	63281 Laphardt Bros., Waterloo, Ont.	3 "	60	Canada Paint Co., Ltd., Toronto.	.....	Elephant, 130.
"	5	"	63283 L. B. Snyder, Berlin.	3 "	60	Pinchin Johnson & Co., Toronto.	.....	"Minerva" brand, outside.
"	10	"	63288 Thos. Ramsay, 153 Market Square, Hamilton	3 "	45	A. Ramsay & Son Co., Montreal.	.....	"Unicorn" brand, outside.

## DISTRICT OF WINDSOR—

May	26	White Paint	53677 E. & S. Pollard, Petrolia.	3 lbs.	60	.....	Pinchin Johnson & Co., Toronto.	Minerva inside white.
"	26	"	53679 Van Tuyl & Fairbank, Petrolia.	3 tins.	.....	Sherwin Williams, Toronto.	.....	Family.....
"	27	"	53690 Mackenzie, Milne & Co., Sarnia.	3 "	45	Brandram Henderson, Montreal.	.....	Brandram B.B. White Lead.



## SESSIONAL PAPER No. 14

## WHITE PAINT.

Results of Analysis.										Remarks and Opinion of the Chief Analyst.
Weight in Ounces.			Vehicle.	Pigment.	Analysis of separated dry pigment.					
Total.	Tin.	Paint.			Loss on Ignition	Residue insoluble in Nitric Acid.	Lead, (metal).	Found.	Found in Residue.	
									No. of Sample.	

*Concluded.*

			p. c.	p. c.	p. c.	p. c.	p. c.			
See	No.	61519	.....	.....	.....	.....	.....	.....	62191	Essentially zinc oxide.
See	No.	55025	..	.....	.....	.....	.....	.....	62192	Chiefly lead.
22.5	3.0	19.5	33.6	66.4	9.82	5.37	44.46	Zinc. Silica.	62193	" white lead.
17.9	2.8	15.1	44.0	56.0	2.49	48.72	4.07	" Barium.	62196	" barytes.

H. J. DAGER, ACTING INSPECTOR.

See	No.	61519	.....	.....	.....	.....	.....	.....	63279	Essentially zinc oxide.
See	No.	58367	.....	.....	.....	.....	.....	.....	63289	Chiefly barytes.
See	No.	58366	.....	.....	.....	.....	.....	.....	63281	"
See	No.	62193	.....	.....	.....	.....	.....	.....	63283	Chiefly white lead.
See	No.	63433	.....	.....	.....	.....	.....	.....	63288	Essentially zinc oxide.

JNO. TALBOT, INSPECTOR.

21.0	3.0	18.0	41.6	58.4	12.78	4.36	40.43	Zinc. ....	53677	Chiefly lead.
See	No.	61519	.....	.....	.....	.....	.....	.....	53679	Essentially zinc oxide.
See	No.	2119	.....	.....	.....	.....	.....	.....	53690	" white lead.

6 GEORGE V, A. 1916

BULLETIN No. 301.—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF WINDSOR—

1914.								
June	4	White Paint	63902 W. J. Heaman, Exeter.	3 lbs.	60	Low Bros., Toronto.	.....	Low Bros. High Stand- ard Liquid Paint.
"	5	"	63904 Harland Bros., Clinton.	3 "	45	Sherwin Williams, Toronto.	.....	Family .....

## DISTRICT OF MANITOBA—

May	20	White Paint	61121 Linklater Bros., 910 Main st., Winni- peg.	3 tins.	75	The Sherwin Williams Co. of Canada, Ltd.	Agent in Winnipeg.	Family. ....
"	20	"	61122 C. Tadmán, 866 Main st., Winni- peg.	3 "	60	G. F. Stephens & Co., Winnipeg	.....	Zenith House Paint, out- side white.
"	20	"	61123 Weir & Wilson, 666 Main st., Winnipeg.	3 "	75	"	.....	Stephens In- side.
"	21	"	61124 The Whiting Hard- ware, Osbornest., Winnipeg.	3 "	75	The Imperial Varnish & Col- our Co., Ltd.	.....	Outside white.
"	22	"	61125 Walter Johnson, 581 Sargent ave., Winnipeg.	3 "	75	Brandram & Hen- derson.	Agent in Winnipeg.	Pure white...

## DISTRICT OF EAST SASKATCHEWAN—

May	20	White Paint	63741 Armstrong, Smith & Downnell, Re- gina.	3 cans	75	Heath & Milligan Mfg. Co., Chi- cago, U.S.A.	.....	White .....
"	20	"	63744 The Central Hard- ware, Regina.	3 "	75	Pinchin Johnson & Co., Winni- peg.	.....	.....
"	20	"	63746 The Regina Trad- ing Co., Ltd., Regina.	3 "	75	G. F. Stephens & Co., Winnipeg.	.....	Outside. ....
"	22	"	63748 C. Moller, Regina.	3 "	75	P. D. Dods & Co., Ltd., Mon- treal.	.....	Outside 26....
"	22	"	63749 Peart Bros., Hard- ware Co., Regina.	3 "	75	Sherwin Willi- ams, Montreal.	.....	Family. ....

## DISTRICT OF WEST SASKATCHEWAN—

June	8	White Paint	64001	C. Warder & Co., ½ pt.	25	G. F. Stephens & Co., Ltd.	Inside.
"	9	"	64010	J. A. Hollingren, 1 " Estevan, Sask.	25	Canada Paint Co., Montreal.	Outside white.

### WHITE PAINT—

Results of Analysis.						
Weight in Ounces.			Analysis of separated dry pigment.			Remarks and Opinion of the Chief Analyst.
Total.	Tin.	Paint.	Vehicle.	Pigment.	No. of Sample,	
				Loss on Ignition.		
				Residue Insoluble in Nitric Acid.		
				Lead (metal).		
				Found.		
				Found in Residue.		

			p. c.	p. c.	p. c.	p. c.	p. c.			
See	No.	55025	.....	.....	.....	.....	.....	.....	63902	Chiefly lead.
See	No.	61519	.....	.....	.....	.....	.....	.....	63904	Essentially zinc oxide.

See	No.	61519	.....	.....	.....	.....	.....	61121	Essentially zinc oxide.
23·0	2·75	20·25	34·1	65·9	16·17	19·11	22·69	Zinc. Silica.	61122 Lead, zinc and barytes.
20·5	2·9	17·6	36·9	63·1	6·78	63·85	1·24	" Barium.	61123 Chiefly barytes.
See	No.	55027	.....	.....	.....	.....	.....	61124	Lead and zinc.
See	No.	62339	.....	.....	.....	.....	.....	61125	Essentially white lead.

17·0	2·8	14·2	54·0	46·0	10·82	6·38	19·32	Zinc.	Silica.	63741	Lead and zinc.
See	No.	53677	.....	.....	.....	.....	.....	.....	.....	63744	Chiefly white lead.
See	No.	61624	.....	.....	.....	.....	.....	.....	.....	63746	Lead, zinc and barytes.
See	No.	2010	.....	.....	.....	.....	.....	.....	.....	63748	Chiefly barytes.
See	No.	61519	.....	.....	.....	.....	.....	.....	.....	63749	Essentially zinc oxide.

[illegible]

6 GEORGE V, A. 1916

BULLETIN No. 301.—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vicinity.		Inspector's Report. (Is not a expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WEST SASKATCHEWAN—								
1914.								
June 11	White Paint	64027	Western Hardware Co., Moose Jaw, Sask.	1 pint	25	Canada Paint Co., Montreal.		No. 131.....
" 11	"	64029	Moose Jaw Hardware Co., Moose Jaw, Sask.	1 "	25	Lowe Bros., Ltd., Winnipeg.		
" 11	"	64032	Carter & Bailey, Moose Jaw, Sask.	$\frac{1}{2}$ "	25	Martin Senour Co., Montreal.	Winnipeg Paint and Glass Co., Winnipeg.	Outside paint.
DISTRICT OF ALBERTA—								
June 16	White Paint	51976	Northern Hardware Co., Edmonton.	3 tins.	60	Sherwin Williams Co., Canada.		Family.....
" 17	"	51977	Chown Hardware Co., Edmonton.	3 "	90	Martin Senour & Co., Chicago, U.S.A.	Edmonton Plate Glass Co.	
" 17	"	51978	Market Hardware Co., Edmonton.	3 "	75	Brandram Henderson, Montreal.	Race Hunt & Giddy Edmonton	Pure white. . .
" 18	"	51979	J. F. Macdonald, Calgary.	3 "	75	Brit. Am. Paint Co., Victoria, B.C.		No. 31.....
" 18	"	51980	T. R. Stewart & Co., Calgary.			"		No. 31.....
DISTRICT OF ROCKY MOUNTAINS—								
June 9	White Paint	61621	F. E. Archer, Kaslo, B. C.	3 tins.	90	Sherwin Williams Co., Montreal.		Family.....
" 9	"	61624	Byers, Ziezerich, Green & Co., Kaslo, B. C.	3 "	90	G. F. Stephens & Co., Winnipeg.		Outside.....
" 18	"	61630	Lawrence Hardware Co., Revelstoke, B. C.	3 "	90	British American Paint Co., Victoria, B. C.		No. 30.....
" 18	"	61631	" " " "	3 "	90	" " " "		No. 31.....
" 18	"	61632	Revelstoke Hardware Co., Revelstoke, B. C.	3 "	90	Pinchin, Johnson & Co., Toronto.		Minerva, Outside.
DISTRICT OF VANCOUVER—								
June 1	White Paint	55023	W. C. Shearman, 546 Granville St., Vancouver, B. C.	3 tins.	75	The Sherwin Williams Co. of Canada, Ltd.		Family.....
" 1	"	55024	Fraser Hardware Co., 651 Granville St., Vancouver, B. C.	3 "	105	British American Paint Co., Victoria, B. C.		"Bapeo" Pure Paint, No. 31.

## SESSIONAL PAPER No. 14

## WHITE PAINT.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Weight in Ounces.			Vehicle.	Pigment.	Analysis of separated dry pigment.							
Total.	Tin.	Paint.			Loss on Ignition	Residue insoluble in Nitric Acid.	Lead, (metal).	Found.	Found in Residue.			
			p. c.	p. c.	p. c.	p. c.	p. c.					
Concluded.												
See	No.	62337	.....	.....	.....	.....	.....	.....	.....	.....	64027	Chiefly barytes.
See	No.	55025	.....	.....	.....	.....	.....	.....	.....	.....	64029	Chiefly lead.
See	No.	51977	.....	.....	.....	.....	.....	.....	.....	.....	64032	Chiefly lead and zinc.
A. W. R. MARKLEY, INSPECTOR.												
See	No.	61519	.....	.....	.....	.....	.....	.....	.....	.....	51976	Essentially zinc oxide.
20·2	2·7	17·5	46·2	53·8	9·66	1·90	41·70	Zinc.	.....	.....	51977	Chiefly lead and zinc.
See	No.	62339	.....	.....	.....	.....	.....	.....	.....	.....	51978	Essentially white lead.
"	"	61631	.....	.....	.....	.....	.....	.....	.....	.....	51979	Chiefly white lead.
"	"	61631	.....	.....	.....	.....	.....	.....	.....	.....	51980	"
THOS. PARKER, INSPECTOR.												
See	No.	61519	.....	.....	.....	.....	.....	.....	.....	.....	61621	Essentially zinc oxide.
20·1	3·0	17·1	33·0	67·0	18·82	19·88	27·25	Zinc.	Silica.	.....	61624	Lead, zinc barytes.
20·75	2·6	18·15	37·6	62·4	10·08	8·04	54·19	"	Barium	.....	61630	Chiefly white lead.
21·0	2·7	18·3	40·8	59·2	10·18	8·43	33·91	"	"	.....	61631	" "
See	No.	53677	.....	.....	.....	.....	.....	.....	.....	.....	61632	" "
E. J. MORGAN, INSPECTOR.												
See	No.	61519	.....	.....	.....	.....	.....	.....	.....	.....	55023	Essentially zinc oxide.
See	No.	61631	.....	.....	.....	.....	.....	.....	.....	.....	55024	Chiefly white lead.

6 GEORGE V, A. 1916

BULLETIN No. 301.—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF VANCOUVER—

1914.								
June	4	White Paint	55025 The Johnson Paint & Varnish Co., Robson and Howe Sts., Vancouver, B. C.	3 tins	90	Lowe Bros., Ltd. Toronto, Ont.		White 328 ...
"	4	"	55026 T. J. Trapp & Co., Ltd., Columbia St., New Westminster, B. C.	3 "	90	The Martin Seymour Co., Ltd., Montreal		100% pure. No adulteration
"	4	"	55027 Anderson & Lusby, Columbia St., New Westminster, B. C.	3, "	75	Imperial Varnish & Colour Co., Ltd., Toronto.		Maple Leaf Paint, outside white.

## DISTRICT OF VICTORIA—

May	28	White Paint	61944 The Melrose Co., Ltd., 618 Fort St., Victoria, B. C.	3 lbs.	75			"Pyramid" Brand white paint, 73.
"	28	"	61946 E. G. Friar & Co., Ltd., 1501 Government St., Victoria, B. C.	3 tins	120	Pinchin, Johnson & Co., Toronto		Minerva Paint Inside white
"	28	"	61947 P. McQuade & Son, 1214 Wharf St., Victoria, B. C.	3 "	75	The Staneland Co., Victoria, B. C.		Gloss White...
"	28	"	61950 Island Hardware Co., 707 Fort St., Victoria, B. C.	3 "	75	British American Paint Co., Victoria, B. C.		"Bapco" Pure Paint, No. 31
"	28	"	61952 Watson & McGregor, 647 Johnson St., Victoria, B. C.	3 "	120	The Imperial Varnish and Colour Co., Ltd., Toronto.		Maple Leaf Brand, outside white.

## DISTRICT OF WEST QUEBEC, EAST QUEBEC

June	24	White Paint	2819 Adelard Cloutier, St. Odilon, Que.	3 lbs.	30	Herman Young.		Unicorn brand
"	24	"	2825 Eugene Audet, Prosperé, Que.	3 "	15	Herman Young.		" "
"	24	"	2821 Archille Labrecque, St. Odilon, Que.	3 "	15	Herman Young.		" "
"	9	"	2008 L'Union Agricol, St. Paschal, Que.	3 bxs.	54	Sherwin Williams Co., Montreal.		



6 GEORGE V, A. 1916

BULLETIN No. 301.—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WEST QUEBEC, EAST QUEBEC								
1914.								
June 25	White Paint	2831	L'Union Agricole, St. Pascal, Que.	3 lbs..	54	Victoria Paint Co., Montreal.	La Comp. de Ferre- naries Lé- tang Ltd., Montreal.	699.....
May 16	" ..	60970	J. A. Asselin, St. Felix, Valois, Que.	3 tins.	45	Sherwin Wil- liams, Mon- treal.	.....	Family Paint.
" 19	" ..	60971	S. Costelleau, Joli- ette, Que.	3 bxs.	45	A. Ramsay & Son Co., Mon- treal.	.....	Unicorn brand
" 19	" ..	60972	Chs. Leblanc, Joli- ette, Que.	3 "	45	Canadian Paint Co. Ltd., Mon- treal.	.....	891.....
" 20	" ..	60974	Alphonse St. George, St. Jean Matha, Que.	3 "	45	Sherwin Wil- liams, Mon- treal.	.....	Family Paint.



SESSIONAL PAPER No. 14.

## WHITE PAINT.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Weight in Ounces.			Vehicle.	Pigment.	Analysis of separated dry pigment.						
Total.	Tin.	Paint.			Loss on Ignition	Residue Insol- uble in Nitric Acid.	Lead (metal.)	Found.	Found in Residue.		

AND THREE RIVERS—*Concluded.*

See	No.		p. c.	p. c.	p. c.	p. c.	p. c.				
		53393	....	.....	.....	.....	.....	.....	.....	2831	Chiefly barytes.
"	"	61519	.....	.....	.....	.....	.....	.....	.....	60970	Essentially zinc oxide.
"	"	63433	.....	.....	.....	.....	.....	.....	.....	60971	" "
"	"	2554	.....	.....	.....	.....	.....	.....	.....	60972	Chiefly barytes.
"	"	61519	.....	.....	.....	.....	.....	.....	.....	60974	Essentially zinc oxide.

**APPENDIX R.****BULLETIN No 302—BRAN.**

OTTAWA, March 19, 1915

J. U. VINCENT, Esq.,  
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report upon one hundred and eighty seven (187) samples of Bran, as sold in Canada.

Standards for Bran were legalized by Order in Council, dated 29th October, 1910 (amended May 3rd, 1911) as follows:

Bran is a product of the milling of wheat or other grain, and contains not less than fourteen (14) per cent of proteids, not less than three (3) per cent of fat, not more than ten (10) per cent. of crude fibre and must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under "The Seed Control Act."

One hundred and eighty (183) of the samples herein reported meet the requirement of our standard, so far as nutritive value is concerned.

Eleven (11) samples show excess of noxious weed seeds, on the assumption that 25 seeds per pound of bran is excessive. This limit is much higher than that fixed by the Seeds Branch of the Department of Agriculture; but it is to be remembered that the limit set by the Seed Commissioner has reference to the presence of noxious weed seeds in Seed grain, etc. Owing to the fact that a certain percentage of these seeds lose their vitality in the process of digestion, when contained in a feeding stuff, it is considered that a more liberal interpretation is reasonable in the case of Bran, or other cattle food. The limit permissible is discussed in Bulletin No. 254, pp. 7 to 11.

Although 14 per cent proteids, 3 per cent fat, and a limit of 10 per cent crude fibre is sufficient to make a sample sold as Bran, quite legal in respect to feeding value, yet, if a manufacturer elects to guarantee a higher value than the quoted standard calls for, it is reasonable to require that the guaranteed value should be reached. On this ground two (2) samples, which meet standard values, must be condemned, as failing to meet the higher values claimed by the manufacturer.

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The reasonableness of the claims of value for Bran, under the Act, is evidenced by the fact that proteids in excess of 14 per cent are found in one hundred and twenty five (125) samples; fat in excess of 3 per cent is found in one hundred and seventy eight (178) samples, and less than 9 per cent of fibre is found in one hundred and five (105) samples.

The subjoined table gives this information in greater detail; and shows that Bran is decidedly a better article in some localities than in others.

	Total Samples.	Proteids.		Fat.		Fibre.	
		above 16%.	above 15%.	above 5%.	above 4%.	below 8%.	below 9%.
Nova Scotia .....	10	1	9	0	10	1	5
New Brunswick ..	10	0	6	4	4	1	4
Quebec.....	24	2	7	5	19	1	10
Three Rivers and Eastern Tps.....	19	0	9	2	15	0	9
Montreal and Valleyfield.....	19	6	10	10	8	2	8
Ottawa and Kingston.....	20	2	10	6	13	0	9
Toronto, Hamilton and Windsor.....	27	2	9	10	16	5	13
Manitoba.....	10	6	4	3	7	2	3
Saskatchewan and Alberta.....	23	8	10	10	13	5	9
British Columbia.....	25	17	7	11	12	10	8
	187	44	81	61	117	27	78

I beg to recommend publication of this report as Bulletin No. 302.

I have the honour, to be, Sir,  
Your Obedient Servant,

A. MCGILL,  
*Chief Analyst.*

6 GEORGE V, A. 1916

BULLETIN No. 302—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1914.							
July	9	Bran . . . .	41882 Cross & DeWolfe, Kentville, N.S.	2 lb..	Nil.	Maple M. Co., Toronto.	R. E. Harris, Wolfville, N.S.
"	9	" . . . .	41883 Wentworth Stores, Windsor, N.S.	2 " "	"	St. Lawrence M. Co., Montreal.	Mrs. . . . .
"	10	" . . . .	41884 Shand Bros., Windsor, N.S.	2 " "	"	Quaker Oats Co., Peterboro', Ont.	" . . . .
"	10	" . . . .	41885 Hants Co. Fruit and Produce Co., Windsor, N.S.	2 " "	"	Robin Hood M. Co., Moosejaw, Sask.	" . . . .
"	17	" . . . .	41886 Zwicker & Co., Ltd., Lunenburg, N.S.	2 " "	"	Canada C. F. M. Co., Ltd., Toronto.	" . . . .
"	17	" . . . .	41887 W. C. Smith & Co., Ltd., Lunenburg, N.S.	2 " "	"	McLeod M. Co., Stratford, Ont.	" . . . .
"	29	" . . . .	41888 F. W. Fraser, Halifax, N.S.	2 " "	"	Peterboro' C. Co., Peterboro', Ont.	" . . . .
"	30	" . . . .	41889 B. O. Bishop, Dartmouth, N.S.	2 " "	5	McLeod M. Co., Stratford, Ont.	" . . . .
"	30	" . . . .	41890 I. B. Shaffner & Co., Halifax, N.S.	2 " "	Nil.	St. Lawrence M. Co., Montreal.	" . . . .
"	30	" . . . .	41891 Wentzell's, Ltd., Halifax, N.S.	2 " "	"	Western Canada F. M. Co., Canada.	" . . . .

## DISTRICT OF NEW BRUNSWICK—

June	8	Bran . . . .	59501 C. H. Peters Sons, Ltd., St. John, N.B.	3 pkgs	10	Western Canada F. M., Toronto.	.....
"	12	" . . . .	59502 Ben. Robertson, St. John, N.B.	2 lb..	10	The Campbell F. M. Co., Ltd., Toronto.	.....
"	12	" . . . .	59503 Ira B. Kierstead, St. John, N.B.	2 " "	10	Maple Leaf M. Co., Ltd., Toronto.	.....
"	16	" . . . .	59504 W. B. McKay Co., Ltd., Sussex, N.B.	2 " "	10	Lake of the Woods M. Co., Ltd., Canada.	.....
"	16	" . . . .	59505 Sussex Mercantile Co., Ltd., Sussex, N.B.	2 " "	10	Ogilvie M. Co., Montreal.	.....
"	17	" . . . .	59506 Fawcett Milling Co., Moncton, N. B.	2 " "	Nil.	Western Canada F. M. Co., Ltd., Toronto.	.....
"	18	" . . . .	59507 J. B. Snowball Co., Ltd., Chatham, N. B.	2 " "	10	J. S. Cherry, Preston, Ont.	.....
"	23	" . . . .	59508 McAllister Bros., St. Stephen, N. B.	2 " "	10	Lake of the Woods Milling Co., Ltd., Montreal.	.....

## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per Ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.			
Analysis as given on bag. Protein 15.5. Fat 4.5. Fibre 12.0.	15.90	4.20	8.55	None . . . . .	41882	Genuine and meets claim.
.....	15.08	4.60	9.90	" . . . . .	41883	Genuine.
.....	15.25	4.98	8.15	" . . . . .	41884	"
Analysis as given on bag. Protein 16.25. Fat 5.20. Fibre 9.80.	16.30	4.55	9.30	" . . . . .	41885	" fat slightly below claim; pass.
.....	15.08	4.48	9.05	" . . . . .	41886	Genuine.
.....	15.30	4.94	8.90	" . . . . .	41887	"
.....	15.94	4.92	7.81	3 Chenopodium, 3 Black Bind-weed, 1 Russian Pigweed, 1 Purple Cockle, 1 Western False Flax.	41888	" Noxious weed seeds in excess.
.....	15.50	4.46	8.83	13 Chenopodium, 1 Wormseed Mustard, 1 Black Medick.	41889	Genuine.
.....	15.04	4.62	10.35	1 Catchfly . . . . .	41890	"
.....	15.98	4.72	8.71	None . . . . .	41891	"

JNO. C. FERGUSON, INSPECTOR.

.....	15.12	3.60	9.88	None . . . . .	59501	Genuine.
"Bull Rush" Brand.	14.59	5.0	10.72	" . . . . .	59502	"
"Maple Leaf" Brand.	15.18	5.04	8.60	" . . . . .	59503	"
.....	15.18	4.69	10.15	" . . . . .	59504	"
Brand <O> Diamond O.	14.09	4.68	6.70	" . . . . .	59505	"
.....	15.30	4.70	10.80	" . . . . .	59506	"
.....	15.28	5.00	8.22	" . . . . .	59507	"
Analysis on bags and <B>	15.52	4.70	8.11	" . . . . .	59508	"

6 GEORGE V, A. 1916

BULLETIN No. 302—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NEW BRUNSWICK—

1914.							
June 25	Bran. ....	59509	John Gibson & Son, Fredericton, N. B.	2 lbs.	10	Purity F. M. Co., Ltd., Goderich, Ont.	.....
" 25	" .....	59510	Strong & Nodden, Woodstock, N. B.	2 " "	10	Dominion F. M. Ltd., Montreal.	.....

## DISTRICT OF QUEBEC—

May 19	Bran. ....	56246	J. A. Bedard, 728 rue St. Valier, Quebec.	2 lbs.	5	Unknown	.....
" 19	" .....	56247	N. Bertrand, 685 rue St. Valier, Quebec.	2 " "	5	Ogilvies, Montreal	Mfrs. ....
" 22	" .....	56248	J. A. Blais, 165 rue de la Couronne, Quebec.	2 " "	10	Begins Frere....	" .....
" 22	" .....	56249	Jos. E. Hally, 84 rue Richardson, Quebec.	2 " "	10	Ogilvies, Montreal	" .....
" 26	" .....	56250	J. E. Drolet, 143 rue du Pont, Quebec.	2 " "	10	Jos. Goldie & Co., Ltd.	Kirouack & Fils.
" 26	" .....	56251	Jos. Talbot, rue Laliberte, Quebec.	2 " "	10	Ogilvie Co., Montreal.	W. Carrier & Fils.
" 28	" .....	56252	A. Boyce, 19 Cote D'Abraham, Quebec.	2 " "	15	St. Lawrence Co., Montreal.	P. T. Busiere..
" 29	" .....	56253	S. Busiere, 40 rue Sutherland, Quebec.	2 " "	15	Western Canada.	J. A. Renaud & Cie.
" 29	" .....	56254	Jos. Boiteau, 27 rue Sutherland, Quebec.	2 " "	15	St. Lawrence Co., Montreal.	" .....
" 29	" .....	56255	T. Rochette, 7 rue Deleguy, Quebec.	2 " "	10	O. Bran, Canada..	" .....

## DISTRICT OF EAST QUEBEC—

June 15	Bran. ....	53399	C. Bouchard, St. Denis....	2 lbs.	5	.....	J. B. Renaud, Quebec.
" 9	" .....	2004	Union Agricol, St. Paschal..	2 "	10	St. Lawrence F. M., Montreal.	.....
" 9	" .....	2005	F. X. Roy Co., St. Philippe de Neri.	2 "	10	Dominion F. M., Montreal.	.....
" 9	" .....	2009	Anselme Ouellet, St. Helene..	2 "	10	.....	.....
" 11	" .....	2012	Dube & Fils, Rivière du Loup.	2 "	10	Ogilvie F. M., Ltd.	.....
" 11	" .....	2015	Raphael Levesque, Rivière du Loup.	2 "	10	Dominion F. M.	.....
" 13	" .....	2016	Thomas Michaud, Rivière du Loup.	2 "	10	Rigaud M. Co ...	.....

## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			Vital Weed Seeds per Ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

*Concluded.*

	p. c.	p. c.	p. c.			
.....	14.79	4.73	8.50	3 Chenopodium.....	59509	Genuine.
Labelled Pure Bran..	14.25	5.08	9.60	1 <i>Wild Mustard</i> .....	59510	"

## F. X. W. É. BELAND, INSPECTOR.

.....	14.79	4.75	9.50	2 <i>Wild Mustard</i> .....	56246	Genuine, noxious weeds in excess.
.....	14.70	4.71	9.45	None.....	56247	Genuine.
.....	16.04	5.30	8.03	" .....	56248	"
.....	14.52	4.94	6.80	" .....	56249	"
.....	15.84	5.32	8.47	" .....	56250	"
.....	14.40	4.46	9.60	" .....	56251	"
.....	15.53	5.10	8.95	" .....	56252	"
Analysis Protein 16.82. Fat 5.50. Fibre 10.36.	14.66	4.51	8.81	" .....	56253	Genuine as bran, but below claim.
.....	14.92	4.68	9.53	" .....	56254	Genuine.
.....	14.70	4.56	8.74	" .....	56255	"

## ALP. PELLETIER AND F. X. ROY, INSPECTORS.

.....	14.44	4.36	8.35	4 Chenopodium, 1 black bindweed, 9 spurry, 2 clover.	53399	Genuine.
.....	15.32	4.76	9.30	None .....	2004	"
.....	15.61	4.85	9.25	" .....	2005	"
.....	15.28	5.46	9.51	9 Chenopodium, 4 black bindweed, 8 <i>hares ear mustard</i> , 1 Russian pigweed, 2 <i>wild mustard</i> , 1 catchfly.	2009	Genuine, noxious weedseeds in great excess.
.....	15.03	4.74	8.45	None .....	2012	Genuine.
.....	14.70	5.09	9.09	" .....	2015	"
.....	14.92	4.59	9.50	" .....	2016	"

6 GEORGE V, A. 1916

BULLETIN No. 302—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF QUEBEC—

1914.							
June 10	Bran. ....	2318	Alexandre Villeneuve, St. Jerome, P. Q.	2 lbs.	3	St. Lawrence.....	
" 10	" .....	2319	Ovila Lauzon, St. Jerome, P. Q.	2 "	4	Ogilvie's. ....	
" 10	" .....	2320	Wilfrid Mayer, St. Jerome, P. Q.	2 "	5	" .....	
July 13	" .....	2359	Celestin Legare, St. Agathe des Monts.	2 "	4	Western Canada F. M.	
" 13	" .....	2360	J. B. Belisle, St. Agathe des Monts.	2 "	5	St. Lawrence F. M. Co., Ltd.	
Aug. 5	" .....	2375	J. A. Campbell, Lachute.....	2 "	5	Dominion F. M.	
" 5	" .....	2376	J. W. Boyd, Lachute.....	2 "	10	Ogilvie's. ....	

## DISTRICT OF THREE RIVERS—

May 18	Bran.....	60986	A. Chartier, Joliette.....	2 lbs.	10	Lake of the Woods, Ltd., Montreal.	
" 19	" .....	60987	C. Barrette, Joliette.....	2 "	3	St. Lawrence M. Co., Montreal.	
" 20	" .....	60988	J. A. Bellerose, St. Felix de Valois.	2 "	8	W. Scott & Co., Ottawa.	
" 22	" .....	60989	W. Perreault, Joliette. ....	2 "	10	Lake of the Woods, Montreal.	
" 22	" .....	60990	J. A. Boisvert, Joliette. ....	2 "	3	Wm. Scott & Co., Ottawa.	
" 23	" .....	60991	Arthur Tessier, St. Felix de Valois.	2 "	3	Ogilvie F. M. Co., Montreal.	
" 23	" .....	60992	G. H. Read, St. Felix de Valois	2 "	5	" .....	
" 26	" .....	60993	Pierre Poirier, St. Gabriel de Brandon.	2 "	5	St. Lawrence F. M. Co., Montreal.	
" 26	" .....	60994	Paul Clermont, St. Gabriel de Brandon.	2 "	8	Wm. Scott & Co., Ottawa.	

## DISTRICT OF EASTERN TOWNSHIPS—

June 8	Son .. ...	2101	M. Martel, Actonvale.....	2½ lbs.	4	Lake of the Woods M. Co., Montreal	
" 10	" .....	2102	C. Fortier, Lac Megantic.....	2 "	....	" .....	
" 22	" .....	2103	F. Rondeau, Marieville ...	3 "	....	St. Lawrence F. M. Co., Montreal.	



## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			Vital Weed Seeds per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

## N. CADIEUX, TEMPORARY INSPECTOR.

	p. c.	p. c.	p. c.			
.....	14.35	4.60	9.57	None .....	2318	Genuine.
.....	14.84	4.75	9.24	" .....	2319	"
.....	14.66	4.79	8.47	" .....	2320	"
.....	16.45	4.71	8.45	" .....	2359	"
.....	14.83	4.74	8.15	3 Chenopodium.....	2360	"
.....	14.28	4.82	9.65	1 Western cone flower.	2375	"
.....	15.37	4.75	9.55	None .....	2376	"

## DR. V. P. LAVALLEE, INSPECTOR.

.....	15.28	4.92	8.60	None .....	60936	Genuine.
.....	14.52	4.80	9.24	" .....	60987	"
.....	11.77	4.03	13.80	12 Chenopodium, 1 Western False Flax, 1 Russian Pig- weed, 1 Ergot, 1 Tumble- weed.	60988	Below standard in proteids and too high in fibre. Adulterated under the Act.
.....	15.05	4.96	9.15	None.....	60989	Genuine.
.....	11.08	3.20	15.50	4 Chenopodium, 1 <i>Hares-car</i> <i>Mustard</i> , 1 <i>Wild Mustard</i> .	60990	Below standard in proteids and high in fibre. Nox- ious weed seeds in excess. Adulterated under the Act.
.....	14.96	5.40	9.04	2 Chenopodium.....	60991	Genuine.
.....	14.27	4.86	8.50	None .....	60992	"
.....	15.48	4.74	8.57	" .....	60993	"
.....	11.00	3.18	16.35	35 Chenopodium, 1 Black Bindweed, 1 <i>Wild Mustard</i> , 1 <i>Hares-car Mustard</i> , 1 <i>Stinkweed</i> .	60994	Low proteids. High fibre. Noxious weed seeds in excess. Adulterated under the Act.

## J. C. ROULEAU, INSPECTOR.

.....	14.62	4.84	9.45	None.....	2101	Genuine.
.....	15.05	4.99	9.02	" .....	2102	"
.....	15.30	4.36	8.85	" .....	2103	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF EASTERN TOWNSHIPS—

1914.							
June 22	Son .....	2104	Dona Monast, Marieville.....	3 lbs.	.....	Ogilvie's, Montreal	.....
" 22	" .....	2105	" " .....	3 "	.....	"	.....
" 22	" .....	2106	W. Plgeon, St. Cesaire. ....	3 "	.....	Lake of the Woods, Montreal.	.....
" 22	" .....	2107	Aug. Choquette, St. Cesaire..	3 "	.....	Lake of the Woods.	.....
" 23	" .....	2108	Geo. A. Morrison, Sutton....	3 "	.....	Western Canada F. M. Co.	.....
" 24	" .....	2109	A. Roberge, Thetford Mines..	3 "	.....	Canadian Cereal & F. M. Co., Ltd., Galt, Ont.	.....
" 26	" .....	2110	O. Gancher, St. Hyacinthe....	3 "	.....	St. Lawrence F. M. Co.	.....

## DISTRICT OF MONTREAL—

May 29	Bran. ....	62491	Bruneau Currie & Co., 12 Place D. Youville, Montreal.	3 lbs.	.....	.....	Unknown ....
June 1	" .....	62492	F. A. Benoit & Fils, 201 St. Paul St., Montreal.	3 "	.....	.....	" .....
" 1	" .....	62493	E. Benoit & Fils, 181 St. Paul St., Montreal.	3 "	.....	.....	Maple Leaf M. Co., Montreal.
" 1	" .....	62494	Duclos & Perras, 198 Notre Dame St. East, Montreal.	3 "	.....	.....	E. Benoit & Fils, Montreal.
" 1	" .....	62495	Wilson Bros., 1467 Notre Dame St., East, Montreal.	3 "	.....	.....	D. Lariviere & Co., Montreal.
" 1	" .....	62496	D. Lariviere & Co., 1413 Notre Dame St. East, Montreal.	3 "	.....	.....	Dominion F. M. Co., Montreal.
" 1	" .....	62497	Senecal & Frere, 1341 Notre Dame St. East, Montreal.	3 "	.....	.....	Maple Leaf M. Co., Montreal.
" 2	" .....	62498	W. Lamarre & Co., 630 Atwater Ave., Montreal.	3 "	.....	.....	" .....
" 2	" .....	62499	G. H. Boursier, 1212a, St. James St. West, Montreal.	3 "	.....	.....	St. Lawrence F. & M. Co., Montreal.
" 2	" .....	62500	W. J. Hushion & Co., Ltd., 1131 St. James St. West Montreal.	3 "	.....	.....	The Campbell M. Co., Toronto.

## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

*Concluded.*

	p. c.	p. c.	p. c.			
Bag marked, Fancy Wheat with ground screenings not ex- ceeding mill run.	14·83	4·66	8·55	1 Russian Pigweed, 8 Cheno- podium.	2104	Genuine.
.....	15·48	4·86	8·35	None .....	2105	"
.....	15·85	4·60	8·60	" .....	2106	"
.....	14·74	4·83	8·92	" .....	2107	"
Reg. No. 66. ....	13·82	4·46	10·35	" .....	2108	"
.....	15·5	5·21	9·65	" .....	2109	"
.....	15·0	4·30	8·95	" .....	2110	"

D. J. KEARNEY, INSPECTOR.

.....	17·74	3·82	6·62	None .....	62491	Genuine.
.....	16·92	4·94	8·17	" .....	62492	"
.....	14·52	5·04	9·25	" .....	62493	"
.....	14·76	4·45	8·87	" .....	62494	"
.....	15·38	5·32	8·97	" .....	62495	"
.....	15·40	5·17	8·15	" .....	62496	"
.....	15·45	5·04	9·50	" .....	62497	"
.....	15·05	5·12	7·94	" .....	62498	"
.....	14·35	5·09	9·75	3 Chenopodium .....	62499	"
.....	15·18	5·02	8·92	None .....	62500	"

6 GEORGE V, A. 1916

BULLETIN No. 302—

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DI TRICT OF VALLEYFIELD—

1914.							
June 17	Bran. ....	62381	La Compagnie Dion, Ltd., Valleyfield.	2 lb. ....		Ogilvie M. Co., Montreal.	
" 17	" .....	62382	McDonald & Robb, Valley- field.	2 " .....		Unknown .....	
" 17	" .....	62383	Frank Dorais, Valleyfield .....	2 " .....		McDonald & Robb, Valleyfield.	
" 17	" .....	62384	T. Longtin, Valleyfield. ....	2 " .....		" " .....	
July 2	" .....	62385	Arthur Lebeuf, Bellerive de Valleyfield.	2 " .....		" " .....	
" 3	" .....	62386	T Aubry, Lancaster .....	2 " .....	5	Campbell F. M. Co., Toronto.	
" 3	" .....	62387	D. McRae, Lancaster .....	2 " .....	5	" " .....	
" 3	" .....	62388	R. J. McDougal, Lancaster. ....	2 " .....		Lake of the Woods M. Co., Montreal.	
" 3	" .....	62389	J. A. Abram, Summerstown. ....	2 " .....		Western Canada F. M. Co., To- ronto.	

## DISTRICT OF OTTAWA—

June 2	Bran. ....	63411	E. C. Armand, Arnprior. ....	2 lb. ....	10	Peterboro' Cereal Co., Peterboro'.	Mfrs. ....
" 2	" .....	63412	M. Havey, Arnprior .....	2 " .....	10	Lake of the Woods M. Co., Ltd., Keewatin.	" .....
" 6	" .....	63413	G. D. Atkinson, Cornwall ...	2 " .....	10	The Campbell F. M. Co., Toronto and Peterboro'.	" .....
" 9	" .....	63414	J. W. McKay, Wellington St., Ottawa.	2 " .....	10	Lake of the Woods M. Co., Ltd., Keewatin.	" .....
" 9	" .....	63415	H. Fitzpatrick & Co., Wellin- gton St., Ottawa.	2 " .....	10	Western Canada F. M. Co., Ltd., Ottawa.	" .....
" 9	" .....	63416	Maple Leaf Milling Co., Ltd., Ottawa.	2 " .....	10	Vendors .....	" .....
" 9	" .....	63417	The Renfrew F. M. Co., Ltd., Ottawa.	2 " .....	10	" .....	" .....
" 11	" .....	63418	A. E. Fairbairn, 1320 Bank st., Ottawa.	2 " .....	5	Ogilvie's, Ottawa.	Mfrs. ....
" 12	" .....	63419	E. Larose, Cumberland st., Ottawa.	3 " .....	10	Quaker Oats Co., Peterboro.	" .....
" 12	" .....	63420	Wm. Scott & Co., Deschenes, P.Q.	3 " .....		Vendors .....	" .....

## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

## D. J. KEARNEY, ACTING INSPECTOR.

	p. c.	p. c.	p. c.			
.....	15.55	4.38	9.10	None	62381	Genuine.
.....	16.09	5.16	8.50	"	62382	"
.....	16.88	4.76	9.70	"	62383	"
.....	16.57	5.00	9.90	1 Chess	62384	"
.....	16.60	4.74	8.95	None	62385	"
.....	15.50	4.80	9.02	"	62386	"
.....	15.30	4.42	9.38	3 Chenopodium, 1 Black Bin- weed, 9 Chess.	62387	"
.....	15.76	5.28	8.85	1 Peppergrass, 3 Chenopo- dium.	62388	"
.....	15.85	4.65	9.21	None	62389	"

## J. A. RICKEY, INSPECTOR.

.....	14.84	4.87	9.95	None	63411	Genuine.
Claim—Protein 14.0. Fat 3.0. Fibre 10.0.	15.71	4.66	8.84	"	63412	"
"Bull Rush" Brand.	14.70	4.72	9.29	4 Chenopodium, 2 Black Bin- weed, 4 Chess, 1 Wild Must- ard, 3 Hair's-ear Mustard, 1 Russian Pigweed, 2 Purple Cockle, 1 Catchfly, 1 Gallardia.	63413	" Noxious weed seeds in excess.
Claim—Protein 14.0. Fat 3.0. Fibre 10.0.	15.10	5.40	8.62	3 Chenopodium	63414	Genuine.
.....	15.45	3.79	9.42	2 Chenopodium, 1 Grass, 1 Wild Mustard, 1 Purple Cockle.	63415	" Noxious weed seeds in excess.
Claim—Protein 15.5. Fat 4.5. Fibre 12.0.	15.05	5.09	8.67	None	63416	Genuine.
.....	14.18	4.74	8.40	6 Chenopodium, 3 Black Bind- weed, 2 Wild Mustard, 1 American Dragonhead, 1 Russian Pigweed, 1 Purple Cockle, 1 Lady's Thumb.	63417	Genuine. Noxious weed seeds in excess.
.....	15.15	4.48	10.17	None	63418	Genuine.
.....	15.38	4.78	8.52	"	63419	"
.....	13.75	4.43	12.90	"	63420	Slight deficiency in pro- teids. Excess fibre. Pass.

6 GEORGE V, A. 1916

## BULLETIN No. 302—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF KINGSTON—

1914.							
May 18	Bran. ....	61501	J. A. McFarlane, Kingston ..	2 lbs.	10	Hedley Shaw.....	
" 18	" .....	61502	Kingston Milling Co., King- ston.	2 "	10	Vendors .....	
" 18	" .....	61503	Geo. Gibson, Kingston.....	2 "	5	Ogilvie's, Montreal .....	
" 18	" .....	61504	L. W. Murphy, Kingston ....	2 "	10	Lake of the Woods M. Co. ....	
" 18	" .....	61505	W. P. Peters, Kingston .....	2 "	5	" .....	
" 20	" .....	61506	C. Rathman, Belleville....	2 "	5	" .....	
" 20	" .....	61507	A. Parks, Belleville.....	2 "	10	Ogilvie's, Montreal .....	
" 20	" .....	61508	R. S. Brown, Port Hope .....	2 "	5	Peterboro Cereal Co., Peterboro .....	
" 21	" .....	61509	The Campbell Flour Mills, Peterboro.	2 "	5	Vendors.....	
" 21	" .....	61510	Peterboro Cereal Co., Peter- boro.	2 "	5	" .....	

## DISTRICT OF TORONTO—

May 27	Bran. ....	62155	Riseborough & Jackson, 47 Shaftsbury ave., Toronto.	3 lbs.	5	The Maple Leaf M. Co., Port Colb- orne. ....	
" 27	" .....	62156	Western Canada F. M. Co., Ltd., Toronto.	3 "	5	Vendors, Goderich, Ont. ....	
" 28	" .....	62157	Stiver Bros., Aurora.....	3 "	5	Alex. Brown M. Co., Ltd., Tor- onto. ....	
June 1	" .....	62158	The Maple Leaf M. Co., Ltd., Aurora.	3 "	5	Vendors, Port Colb- orne. ....	
" 1	" .....	62159	Peerless Milling Co., (C. W. F. Brown, prop.), 652 Duff- erin st., Toronto.	3 "	5	The Western Can- ada F. M. Co., Ltd., Toronto. ....	
" 1	" .....	62160	Hortop Milling Co., 444 Duff- erin st., Toronto.	3 "	5	The Alex. Brown M. Co., Ltd., Toronto. ....	
" 1	" .....	62161	J. O. Gadsby, 241 Queen st. east, Toronto.	3 "	5	The Campbell F. M. Co., Ltd., Toronto. ....	
" 2	" .....	62162	The Chalmers Milling Co., East Toronto.	3 "	5	Vendors .....	

## DISTRICT OF HAMILTON—

June 3	Bran. ....	63264	The Brampton M. Co., Bra- mpton.	3 lbs.	5	Vendors.....	
" 4	" .....	63265	Doughty & McFarlane, Guelph.	3 "	5	Lake of the Woods M. Co., Ltd., Toronto. ....	

## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds, per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

## JAS. HOGAN, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	14·57	5·02	9·60	None.....	61501	Genuine.
.....	15·87	5·06	8·17	".....	61502	"
.....	14·51	5·07	10·57	".....	61503	"
.....	15·23	4·94	8·52	".....	61504	"
.....	16·29	4·90	8·55	".....	61505	"
.....	15·45	4·97	9·74	".....	61506	"
.....	14·09	4·90	9·70	".....	61507	"
.....	15·52	4·88	9·45	".....	61508	"
.....	14·74	4·86	8·67	".....	61509	"
.....	16·60	5·20	10·53	".....	61510	"

## H. J. DAGER, INSPECTOR.

Labelled, wheat bran, claim, Protein 15·5, Fat 4·5, Fibre 12·0	14·84	4·92	8·94	None.....	62155	Genuine.
.....	14·45	4·90	8·15	".....	62156	"
.....	14·95	4·67	7·50	3 Chenopodium, 13 Black bind- weed, 1 <i>Hare's ear Mustard</i> , 1 <i>Stickweed</i> .	62157	Genuine. Noxious weed seeds in excess.
Labelled, wheat bran, claim, Prot-in 15·5, Fat 4·5, Fibre 12·0	15·98	5·09	9·26	None.....	62158	Genuine.
.....	16·60	4·98	8·46	".....	62159	"
.....	14·57	4·74	8·70	1 Chenopodium, 3 <i>Hare's ear</i> <i>Mustard</i> , 1 <i>Wild Mustard</i> .	62160	Genuine. Noxious weed seeds in excess.
"Bull Rush" Brand.	14·44	4·72	9·85	None.....	62161	Genuine.
.....	14·06	4·10	8·99	".....	62162	"

## H. J. DAGER, ACTING INSPECTOR.

.....	14·35	5·12	10·43	None.....	63264	Genuine.
Claim, Protein, 14·0, Fat 3·0, Fibre 10·0	15·32	4·81	8·55	1 Russian pigweed.....	63265	"

6 GEORGE V, A. 1916

## BULLETIN NO. 302—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF HAMILTON—

1914.							
June	4	Bran.....	63266 W. Hunter & Co., Guelph...	3 lbs.	5	Vendors.....	
"	5	" .....	63267 W. Snider, Waterloo .....	3 "	5	" .....	
"	5	" .....	63268 Irvine Master, Berlin.....	3 "	5	" .....	
"	6	" .....	63269 The Canadian Cereal & F. M. Co., Ltd., Galt.	3 "	5	" .....	
"	6	" .....	63270 Struthers & Church, Galt....	3 "	5	The Ogilvie M. Co., Ltd., Montreal	
"	10	" .....	63276 Dymont & Son, 342 Barton St., East, Hamilton.	3 "	5	Kerr Milling Co., Ltd., Dundas.	
"	10	" .....	63277 Dunlop & Magee, 1097 Barton St. East, Hamilton.	3 "	5	The Maple Leaf M. Co., Ltd., Port Colborne.	
"	11	" .....	63278 Hamilton Milling Co., Hamilton.	3 "	5	Vendors.....	

## DISTRICT OF WINDSOR—

May	28	Bran.....	53693 Jas. Twitchen, London .....	1½ lbs.	Nil.	Hunt Bros., London.	
"	28	" .....	53694 Leith & Staples, London East.	1½ "	"	Unknown .....	
"	28	" .....	53695 Robt. Tremain, Pottersburg..	1½ "	5	T. Dexter & Son, London.	
"	28	" .....	53696 J. B. Drake, London, East...	1¼ "	2	Unknown .....	
"	28	" .....	53697 Chas. Depper, London.....	1½ "	2	Hunt Bros., London.	
"	28	" .....	53698 E. Slobasky & Son, London...	1½ "	5	Lake of the Woods M. Co.	
June	5	" .....	63905 F. W. Evans, Clinton .....	1½ "	5	Harvey Bros., Exeter.	
"	5	" .....	63910 John Andrew, Stratford .....	1½ "	5	Tavistock M. Co., Tavistock.	
"	5	" .....	63912 J. G. Pritchett, London, South.	1½ "	Nil.	Hunt Bros., London.	

## DISTRICT OF MANITOBA—

May	20	Bran. . . .	61151 Western Canada F. M. Co., Ltd., St Boniface.	3 lbs.	...	Vendors.....	
"	21	" .....	61152 Ogilvie Flour Mills Co., Ltd., Winnipeg.	3 "	...	" .....	
"	17	" .....	61153 The Lake of the Woods M. Co., Portage La Prairie.	3 "	...	" .....	



## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis			Vital Weed Seeds per ounce	No. of Sample.	Remarks and opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

*Concluded.*

	p. c.	p. c.	p. c.			
.....	13.78	4.14	6.95	None . . . . .	63266	Genuine.
.....	15.76	4.42	9.60	" . . . . .	63267	"
.....	15.95	5.24	8.12	1 Black bindweed, 1 chess....	63268	"
.....	14.95	5.35	10.30	10 Black bindweed.....	63269	"
Bags branded, Ogilvie's <> Bran.	16.29	5.33	7.95	None . . . . .	63270	"
.....	15.05	4.93	9.15	" . . . . .	63276	"
Claim—Protein 15.5, Fat 4.5. Fibre 12.0.	15.10	5.08	9.25	" . . . . .	63277	"
.....	14.18	4.14	7.50	" . . . . .	63278	"

## JNO. TALBOT, INSPECTOR.

.....	14.40	5.69	9.07	2 Chenopodium. 2 Black Bindweed. 1 Purple Cockle.	53693	Genuine.
.....	15.12	5.18	8.51	None. . . . .	53694	"
.....	14.27	5.30	8.41	34 Chenopodium. 1 Chess, 1 Hare's-ear Mustard, 1 Worm-seed Mustard, 1 Stinkweed.	53695	Genuine. Noxious Weed Seeds in excess.
.....	14.57	5.39	8.65	4 Chenopodium. . . . .	53696	Genuine.
.....	14.92	4.79	8.91	None.....	53697	"
.....	15.18	2.64	8.05	6 Chenopodium. . . . .	53698	"
.....	14.62	4.35	8.80	None.....	63905	"
.....	15.37	4.99	7.91	" . . . . .	63910	"
.....	13.98	4.77	9.27	1 Black Bindweed. 1 Bed Straw. 1 Russian Pigweed.	63912	"

## A. C. LARIVIERE, INSPECTOR.

.....	16.73	5.30	7.94	None.....	61151	Genuine.
.....	15.41	4.87	8.97	" . . . . .	61152	"
.....	15.18	4.71	9.01	" . . . . .	61153	"

6 GEORGE V, A. 1916

BULLETIN No. 302—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturers or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MANITOBA—

1914.							
June 12	Bran . . . . .	61154	The Western Canada F. M. Co., Brandon.	2 lbs.	...	Vendors . . . . .	
" 12	" . . . . .	61155	Maple Leaf M. Co., Ltd., Brandon.	2 "	...	" . . . . .	
" 15	" . . . . .	61156	Geo. McCulloch & Sons, Souris.	2 "	...	" . . . . .	
" 16	" . . . . .	61157	Allan Snider, Killarney . . . . .	2 "	...	" . . . . .	
" 16	" . . . . .	61158	Deloraine Milling Co., Deloraine.	2 "	...		
" 17	" . . . . .	61159	Leitch Bros., Flour Mills, Ltd., Oak Lake.	2 "	...		
" 23	" . . . . .	61160	A. M. Harvey, 651 Sargent ave., Winnipeg.	4 "	10	The Lake of the Woods M. Co.	

## DISTRICT OF SASKATCHEWAN EAST—

May 21	Bran . . . . .	63747	Lake of the Woods Elevator Co., Sedley, Sask.	3 lbs.	Nil.	Vendors, Portage la Prairie.	
" 26	" . . . . .	63758	Lake of the Woods Elevator Co., Qu'Appelle.	3 "	"	" . . . . .	
" 30	" . . . . .	63763	The Colonial, Regina . . . . .	3 "	"	The Capital City F. M., Regina.	
June 1	" . . . . .	63774	Ogilvie Flour Mills Co., Regina.	2 "	"	Ogilvie's F. M. Co., Winnipeg.	
" 2	" . . . . .	63775	Western Canada Mills, Regina.	2 "	"	Vendors, Winnipeg.	
" 2	" . . . . .	63776	Capital City Flour Mills, Regina.	2 "	"	Vendors . . . . .	
" 2	" . . . . .	63777	" " " "	2 "	"	Soo Line M. Co., Weyburn, Sask.	

## DISTRICT OF SASKATCHEWAN, WEST—

June 9	Bran . . . . .	64012	Harry McLeod, Estevan, Sask.	2 1/2 lbs.	10	Geo. McCulloch & Sons, Souris.	
" 10	" . . . . .	64013	Chas. H. Boyd, Moosejaw, Sask.	2 1/2 "	10	Robin Hood M. Co., Moosejaw.	
" 10	" . . . . .	64014	C. P. Walsh, Moosejaw, Sask.	3 "	5	" " . . . . .	
" 10	" . . . . .	64015	Jas. Law, Moosejaw, Sask.	2 1/2 "	10	Ogilvie M. Co., Portage la Prairie.	
" 11	" . . . . .	64026	Alex. McLean Grocery Co., Moosejaw, Sask.	2 1/2 "	5	Robin Hood M. Co., Moosejaw.	
" 11	" . . . . .	64028	City Grocery, Moosejaw, Sask.	2 1/2 "	16	" " . . . . .	

## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds. Per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

*Concluded.*

	p. c.	p. c.	p. c.			
.....	17.35	4.62	9.25	None.....	61154	Genuine.
.....	15.10	4.72	8.90	".....	61155	"
.....	16.04	4.82	10.12	".....	61156	"
.....	17.26	5.00	9.05	".....	61157	"
.....	19.72	5.66	7.65	".....	61158	"
.....	16.55	4.99	8.46	".....	61159	"
.....	15.67	4.72	10.06	6 Chenopodium.....	61160	"

## JNO. O. SCOTT, INSPECTOR.

.....	14.79	4.86	10.82	3 Chenopodium, 1 Milk Vetch	63747	Genuine.
.....	15.76	5.12	7.94	None.....	63758	"
.....	14.18	5.30	9.23	".....	63763	"
.....	15.50	5.47	9.45	24 Chenopodium, 17 Pepper Grass, 1 Wormseed Mustard	63774	"
.....	13.81	4.67	11.70	None.....	63775	Pass.
.....	16.46	4.99	8.90	1 Black Bindweed, 2 Cheno- podium.	63776	Genuine.
.....	18.95	5.45	6.79	None.....	63777	"

## L. H. HALL, INSPECTOR.

.....	16.55	5.17	9.81	None.....	64012	Genuine.
.....	14.55	5.34	9.22	".....	64013	"
.....	15.18	4.51	9.10	".....	64014	"
.....	15.58	4.86	9.94	4 Chenopodium.....	64015	"
.....	15.89	4.90	8.86	None.....	64026	"
.....	15.28	5.13	9.15	".....	64028	"

6 GEORGE V, A. 1916

BULLETIN No. 302—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer	Furnisher.
DISTRICT OF ALBERTA—							
1914.							
June 17	Bran . . .	51961	Hamilton & Son, Edmonton, Alta.	2 lbs..	5	Campbell & Otterwell, Edmonton.	
" 17	" . . . . .	51962	J. J. Murray & Co., Edmonton, Alta.	2 "	5	Union Supply Co., Battleford.	
" 20	" . . . . .	51963	J. E. Love, Calgary.....	2 "	5	Robin Hood M. Ltd., Calgary.	
" 20	" . . . . .	51964	" " . . . . .	2 "	5	Ogilvies, Medicine Hat.	
" 20	" . . . . .	51965	Erb & Anderson, Calgary...	2 "	5	Robin Hood M. Ltd., Calgary.	
" 23	" . . . . .	51966	Western Canada & M., Calgary.	2 "		Vendors..	
" 23	" . . . . .	51967	Brandon Feed Store, East Calgary.	2 "		Quaker Oats Co., Saskatoon.	Crown Feed & Produce Co., Calgary.
" 23	" . . . . .	51968	F. Fletcher, Calgary....	2 "		Robin Hood M. Ltd., Calgary.	
" 23	" . . . . .	51969	Crown Feed and Produce Co., Calgary.	2 "		Quaker Oats Co., Saskatoon.	
" 23	" . . . . .	51970	Robin Hood Mills, Ltd., Calgary.	2 "		Vendors..	

## DISTRICT OF ROCKY MOUNTAINS—

June 9	Bran.....	61627	Byers, Giegerich, Green Co., Kalso, B.C.	2 lb..	10	Ogilvie M. Co., Medicine Hat.	
" 18	" . . . . .	61629	L. C. Masson, Revelstoke, B.C.	2 "	10	Maple Leaf Co., Kenora.	
" 18	" . . . . .	61638	C. B. Hume & Co., Revelstoke, B.C.	2 "	10	Western Canada F. M., Calgary.	
" 18	" . . . . .	61643	G. W. Bell, Revelstoke, B.C.	2 "	10	Robin Hood Mills, Calgary.	
" 18	" . . . . .	61644	A. Hobson, Revelstoke, B.C.	2 "	10		Brackman Ker M. Co., Calgary.
July 10	" . . . . .	61651	J. R. Randall, Trail, B.C....	2 "	10	Ellison M. & E. Co., Lethbridge.	
" 10	" . . . . .	61652	" " . . . . .	2 "	10	Ogilvie M. Co., Medicine Hat.	

## DISTRICT OF VANCOUVER—

June 5	Bran.....	55043	Brackman, Ker M. Co., Ltd., Vancouver, B.C.	2 lb..		Robin Hood M. Ltd., Calgary.	
" 5	" . . . . .	55044	Vancouver M. & Grain Co., Ltd., Vancouver, B.C.	2 "		Vendors.....	
" 5	" . . . . .	55045	Alberta Pacific Grain Co., Ltd., Vancouver, B.C.	2 "		Robin Hood M. Ltd., Calgary.	
" 5	" . . . . .	55046	" " . . . . .	2 "		Ogilvie M. Co., Ltd., Medicine Hat.	

## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

## A. W. R. MARKLEY, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	13.50	5.72	9.20	None.....	51961	Genuine.
.....	15.50	4.86	8.89	" .....	51962	"
.....	17.48	4.82	7.03	179 Chenopodium.....	51963	"
.....	15.50	5.02	6.92	None.....	51964	"
.....	17.85	4.66	8.98	82 Chenopodium, 2 Black Bindweed.	51965	"
.....	15.79	4.68	8.45	11 Chenopodium, 3 Black Bindweed, 3 grass.	51966	"
.....	15.52	4.68	8.25	1 Black Bindweed.....	51967	"
.....	16.79	5.20	8.10	1 Stinkweed.....	51968	"
.....	16.57	4.50	8.20	6 Chenopodium.....	51969	"
.....	17.23	4.54	6.96	64 Black bindweed.....	51970	"

## THOS. PARKER, INSPECTOR.

.....	15.70	4.03	10.48	None. ....	61627	Genuine.
.....	16.65	4.85	8.69	" .....	61629	"
.....	15.45	4.39	8.58	7 Chenopodium. ....	61638	"
.....	17.00	4.07	8.65	11 " .....	61643	"
.....	16.31	5.01	7.75	None.....	61644	"
.....	17.59	4.82	6.95	" .....	61651	"
.....	16.18	5.16	9.80	" .....	61652	"

## E. J. MORGAN, INSPECTOR.

.....	16.51	5.42	9.41	17 Chenopodium.....	55043	Genuine.
.....	16.25	5.89	7.70	None.....	55044	"
Claim Crude Protein 16.25, Crude Fat 5.20, Crude Fibre 9.80.	17.19	5.42	6.58	45 Chenopodium.....	55045	"
.....	15.38	5.11	9.39	None.....	55046	"

6 GEORGE V, A. 1916

BULLETIN No. 302—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VANCOUVER—

1914.							
June	5	Bran. . . .	55047 A. E. Burnett & Co., Main st., Vancouver, B.C.	2 lb.	..	Strome M. & Grain Co., Ltd., Strome Alta.	..
"	5	" . . . .	55048 R. R. Rupert & Co., 975 Main st., Vancouver, B.C.	2 "	..	Vancouver M. & Grain Co., Ltd., Vancouver, B.C.	..
"	6	" . . . .	55049 F. T. Vernon, 255 Broadway, Vancouver, B.C.	2 "	..	Ellison M. and E. Co., Ltd., Lethbridge.	..
"	6	" . . . .	55050 Morris & Bushfield, Fraser Ave. and Kingsway, Vancouver, B.C.	2 "	..	Robin Hood M. Ltd., Calgary.	..
"	6	" . . . .	55051 A. E. Burnett & Co., 1435 Westminster Road, Vancouver, B.C.	2 "	..	Ogilvie M. Co., Ltd., Medicine Hat.	..
"	6	" . . . .	55052 W. H. Walsh, Eburne, B.C.	2 "	..	Easterbrook M. Co., Eburne, B.C.	..

## DISTRICT OF VICTORIA—

June	5	Bran. . . . .	61953 Sylvester Feed Co., 709 Yates St., Victoria, B.C.	2 lb.	..	Medicine Hat M. Co., Medicine Hat.	..
"	5	" . . . . .	61954 The Brackman Ker M. Co., Ltd., 1420 Broad St., Victoria, B.C.	2 "	..	Robin Hood M. Calgary.	..
"	5	" . . . . .	61955 " " " "	2 "	..	Ogilvie F. M. Co., Medicine Hat.	..
"	5	" . . . . .	61956 Scott & Peden, Cormorand and Store Sts., Victoria, B.C.	2 "	..	Ellison M. and E. Co., Ltd., Lethbridge.	..
"	5	" . . . . .	61957 " " " "	2 "	..	Ogilvie F. M. Co., Medicine Hat.	..
"	5	" . . . . .	61958 Simon Leiser & Co., Ltd., 524 Yates St., Victoria, B.C.	2 "	..	Lake of the Woods M. Co., Ltd., Keewatin.	..
"	5	" . . . . .	61959 Vancouver M. and Grain Co., Ltd., Kingston St., Victoria, B.C.	2 "	..	Vancouver M. and Grain Co., Ltd., Vancouver, B.C.	..
"	6	" . . . . .	61960 Victoria Feed Co., 601 Esquimalt Road, Victoria, B.C.	2 "	..	Ellison M. and E. Co., Ltd., Lethbridge.	..

## SESSIONAL PAPER No. 14

## BRAN.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

*Concluded.*

	p. c.	p. c.	p. c.			
.....	14.68	5.25	7.52	None.....	55047	Genuine.
.....	15.10	4.56	8.01	" .....	55048	"
.....	16.73	4.67	7.75	" .....	55049	"
.....	16.51	5.22	7.65	82 Chenopodium.....	55050	"
.....	16.55	5.33	8.61	26 " 1 Ergot.....	55051	"
.....	15.40	3.65	9.57	None.....	55052	"

## D. O. SULLIVAN, INSPECTOR.

.....	16.60	3.12	7.47	None.....	61953	Genuine.
.....	16.94	4.84	7.57	" .....	61954	"
.....	15.76	4.82	9.19	" .....	61955	"
.....	16.33	4.90	7.20	" .....	61956	"
.....	16.35	5.35	8.72	" .....	61957	"
.....	15.52	4.70	8.87	" .....	61958	"
.....	16.25	5.22	7.20	" .....	61959	"
.....	16.86	4.40	8.93	" .....	61960	"

## APPENDIX S.

## BULLETIN No. 303—PARIS GREEN.

OTTAWA, Feb. 12, 1915.

J. U. VINCENT, Esq.,  
Deputy Minister Inland Revenue.

SIR,—I have the honour to hand you a report dealing with twenty-four (24) samples of Paris Green purchased by our inspectors in October of last year.

Inspection was made in the districts of Toronto, Hamilton, Windsor, Rocky Mountains and Vancouver, consequent upon complaints received to the effect that an article of unsatisfactory character was being offered as Paris Green. It is pleasing to note that, so far as this report is concerned, such complaints have been without foundation.

Paris Green is defined in the 5th schedule to the Adulteration Act, as follows : "An insecticide containing at least fifty per centum of arsenious acid, and at least thirty per centum of cupric oxide and being completely soluble in aqueous ammonia." All samples analysed are found to meet legal requirements within such narrow limits as to make the article perfectly satisfactory.

Paris Green has been systematically examined on several occasions, since 1895, and the results may be summarized as below :

Bull.	Year.	Samples. Analysed.	Samples Genuine.	Samples Doubtful.	Samples Adulterated	Percentage of Adulteration.
40	1895.....	72	52	5	15	21.0
42	1895.....	174	155	3	16	9.0
88	1903.....	169	162	3	4	2.4
158	1908.....	150	149	0	1	0.7
303	1915.....	24	24	0	0	0.0



SESSIONAL PAPER No. 14

The showing is very gratifying, and justifies the inference that adulterated Paris Green is practically unknown on Canadian markets.

I beg to recommend publication of this report as Bulletin No. 303.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

## BULLETIN No. 303—PARIS GREEN.

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Arsenic % As <sub>2</sub> O <sub>3</sub> .	Copper % Cu O.		

## DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

1914.												
Oct.	1	Paris Green...	63131 H. E. Eade, Aurora...	1 lb.	30	The Canada Paint Co.	H. S. Howland, Sons & Co., Ltd., Toronto.		57.00	30.51	63131	Genuine.
"	1	"	63132 J. A. W. Allan & Co., New Market.	1 "	25	Wood, Vallance & Co., Hamilton.			56.50	30.14	63132	"
"	2	"	63133 A. M. Oldham, Weston...	1 "	22	Sherwin-Williams Co., Montreal.			56.50	30.15	63133	"
"	7	"	63134 S. Mullet, Orillia...	1 "	25	John Lucas, New York, U.S.A.			57.45	30.15	63134	"
"	7	"	63135 H. H. Orton, Barrie...	1 "	30	Unknown			55.62	30.62	63135	"

## DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.

Oct.	19	Paris Green...	63178 G. A. Richardson, Wyndham st., Guelph.	123 1 lb.	30	Lewis Berger & Sons, London.			55.87	29.94	63178	Genuine.
"	20	"	63179 G. A. Elliot, 135 Colborne st., Brantford.	1 "	25	Canada Paint Co., Toronto.			56.25	30.06	63179	"
"	22	"	63180 T. G. Scott, Dunnville...	1 "	25	Unknown			55.45	30.44	63180	"
"	23	"	63181 J. H. Crow, Main st., Welland.	1 "	30		"		54.48	30.34	63181	"
"	26	"	63182 Moore's Hardware, 43 St. Paul st., St. Catharines.	1 "	30	John Lucas Co., New York.			55.45	29.31	63182	"

## SESSIONAL PAPER No. 14

## DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

Oct.	5	Paris Green...	63914	W. H. Cuddy, Strathroy...	1 lb.	30	Canada Paint Co., Montreal.			55 50	30 51	63914	Genuine.
"	5	"	63918	Parker & Sands, Strathroy	1 "	30	"			56 25	29 76	63818	"
"	6	"	63926	W. J. McAllister, Sarnia.	1 "	25				59 40	29 40	63936	"
"	6	"	63929	Clement Drug Co., Sarnia.	1 "	30		Sanderson & Percy, Toronto.		56 38	29 76	63929	"
"	6	"	63930	Mackenzie, Milne Co., Sarnia.	1 "	30		Brandram Henderson, Toronto.		56 64	30 15	63940	"

## DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

Oct.	13	Paris Green...	61676	N. E. Saddaby, Fernie...	1 lb.	25	National Drug Co., Toronto.			56 18	29 56	61676	Genuine.
"	20	"	61687	City Drug & Stationery Co., Nelson.	3 boxes	60	E. J. Barry, New York.			54 48	30 15	61687	"
"	20	"	61688	Rutherford Drug Co., Nel- son.	3 tins.	75	Lewis, Berger & Sons, London, Eng.			54 50	30 31	61688	"
"	26	"	61700	Poole Drug Co., Nelson...	3 plegs	75	E. J. Barry, New York.			55 75	29 40	61700	"

## DISTRICT OF VANCOUVER—E. J. MORGAN, INSPECTOR

Sept.	30	Paris Green...	55087	The Owl Drug Co., Ltd., 600 Granville st., Van- couver.	1 lb.	50	Nat. Drug & Chem. Co., Vancouver.			56 38	29 82	55087	Genuine.
"	20	"	55088	W. M. Harrison & Co., Ltd., cor. Robson and Granville st., Vancouver	1 "	50	A. B. Anslacher & Co., New York			56 18	30 06	55088	"
Oct.	7	"	55089	Frederic T. Hill, 628 Col- umbia st., New West- minster.	1 "	50	Adler Color & Chem. Works, New York.			55 00	29 40	55089	"
"	7	"	55090	D. T. Curtis & Co., 659 Columbia st., New West- minster.	3 boxes	75	A. B. Anslacher & Co., New York			56 00	30 25	55090	"
"	7	"	55091	H. Ryall, 701 Columbia st., New Westminster.	1 lb.	50	Nat. Drug & Chem. Vancouver.			55 75	29 10	55091	"



**APPENDIX T.****BULLETIN No. 304—CONDENSED MILK**

OTTAWA, 24th February, 1915.

J. U. VINCENT, Esq.,  
Deputy Minister Inland Revenue,

SIR,—I beg herewith to hand you a report covering two hundred (200) samples purchased as Condensed Milk, by our inspectors in March, April and May of last year.

The last extended inspection of the article known as Condensed Milk, was made in 1910 (See Bulletin 208), when work done on one hundred and four (104) samples was reported. Twenty-three (23) samples are reported in Bulletin 257 (March, 1913).

Condensed Milk is defined by Order in Council of 3rd November, 1910, as "Milk from which a considerable portion of water has been evaporated, and to which sugar has been added. It contains not less than 28 per cent of milk solids, and not less than 7.7 per cent of milk fat."

These requirements are practically identical with those which were established in June, 1906 (See Circular 19, Dept. of Agriculture, U.S.A.) by the United States.

The experience gained meanwhile has demonstrated that certain allowances must be made for climatic and food variations over so large an area as that of the United States. Hence a ruling dated 20 November, 1914, fixing 25.5 per cent milk solids as the minimum amount permissible in condensed milk. This amendment permits a legal article of condensed milk to be manufactured from the normal milk of herds pastured in any State of the Union. The great extent of our own country, attended as it is with differences of climate and corresponding modifications in the feeding and the stabling of cattle, necessarily affects the character of the milk produced; and it has been claimed to be impossible with western milk to reach our present legal standard for total milk solids, without bringing the fat content considerably above the required minimum, thus placing the western manufacturer of condensed milk at a disadvantage. In the light of these considerations, it is not desirable to press too closely the present legal requirements in the matter of total milk solids; and the question of possible modification of these requirements, in the near future, will receive attention.

6 GEORGE V, A. 1916

The most important single datum in judging the value of condensed milk, is, of course, its content in milk fat. There is a well recognized difficulty in determining the total fat in condensed milk, due to the large amount of cane sugar (about 40 per cent) present. Special care has been taken in fat estimation, as reported for the present collection, and it is believed that the whole of the content of fat has been credited in every case. It is satisfactory to note that, with the exception of one brand (Banner) all samples examined show milk fat up to the legal requirement; and most of them are decidedly richer in milk fat than the minimum calls for. In a supplemental table have been arranged under their specific names, the samples of each brand inspected, and an average has been calculated. It is interesting to compare this mean result with the mean obtained in 1910 (Bulletin No. 208) so far as brands of condensed milk then found in the market are concerned. The results show as follow:—

## BANNER.

No. of Sample.	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.
63327.....	1.3089	31.80	68.20	1.52	6.96
63210.....	1.3269	33.36	66.64	1.60	4.84
53632.....	1.3130	33.48	66.52	1.48	5.80
61109.....	1.3269	32.12	67.98	1.80	6.72
61110.....	1.3297	29.48	70.52	1.40	3.76
63730.....	1.2960	37.04	62.96	1.44	4.92
Mean.....	1.3169	32.88	67.12	1.54	5.50

## BEAVER.

53369.....	1.2933	34.48	65.52	1.52	7.76
60884.....	1.2980	32.68	67.32	1.48	8.04
60890.....	1.2966	30.36	69.64	1.52	9.52
63318.....	1.2899	34.64	65.36	1.88	8.48
54980.....	1.3020	33.68	66.32	1.56	8.88
54985.....	1.3109	30.60	69.40	1.44	7.92
Mean.....	1.2985	32.74	67.26	1.57	8.43

## CANADA FIRST.

53942.....	1.2926	31.48	68.52	1.40	8.04
63326.....	1.3043	28.36	71.64	2.00	8.80
60059.....	1.2987	31.32	68.68	1.64	7.88
63207.....	1.2846	31.44	68.56	1.36	8.72
53639.....	1.2840	31.48	68.52	1.52	8.04
53641.....	1.2960	30.76	69.24	1.56	8.20
61108.....	1.2980	30.28	69.72	1.52	7.92
Mean.....	1.2940	30.73	69.27	1.57	8.23

## CHALLENGE.

53950.....	1.3109	28.64	71.36	1.40	7.92
56099.....	1.3130	31.36	68.64	1.24	8.64
53360.....	1.3185	29.60	70.40	1.52	7.76
53367.....	1.3220	32.20	67.80	1.40	8.28
2309.....	1.3130	27.64	72.36	1.32	9.96
2313.....	1.3157	30.88	69.12	1.44	8.04
2502.....	1.3144	28.36	71.64	1.32	8.32
2511.....	1.3055	29.20	70.80	1.28	8.68
60941.....	1.3171	33.28	66.72	1.56	8.44
60952.....	1.3102	31.32	68.68	1.32	8.00
60961.....	1.3123	29.48	70.52	1.32	7.84

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CHALLENGE—*Concluded.*

No. of Sample.	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.
62414.....	1·3157	30·16	69·84	1·12	8·52
62702.....	1·3151	31·04	68·96	1·60	8·88
62706.....	1·3191	28·52	71·48	1·60	8·32
62710.....	1·3157	27·00	73·00	1·40	9·32
63321.....	1·3310	27·60	72·40	1·36	8·40
62197.....	1·3048	29·60	70·40	1·32	8·88
62113.....	1·3116	30·92	69·08	1·64	8·88
63204.....	1·2853	31·32	68·68	1·68	8·80
53628.....	1·2993	28·40	71·60	1·44	8·52
51923.....	1·3089	28·08	71·92	1·32	8·84
51926.....	1·3157	28·12	71·88	1·56	8·52
57791.....	1·3137	31·96	68·04	1·32	8·52
Mean.....	1·3173	29·77	70·23	1·41	8·53

## CLEEVES.

62110.....	1·2933	33·56	66·00	1·48	7·96
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## CLOVER.

53943.....	1·3007	31·00	69·00	1·36	7·76
50667.....	1·3123	29·16	70·84	1·32	8·20
50672.....	1·2993	31·12	68·88	1·52	8·52
56098.....	1·3041	28·96	71·04	1·32	8·84
53376.....	1·3048	28·52	71·48	1·08	9·32
60064.....	1·3262	26·44	73·56	1·64	8·32
Mean.....	1·3079	29·20	70·80	1·37	8·49

## DIPLOMA.

62116.....	1·3095	29·08	70·92	1·36	9·00
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## EAGLE.

50663.....	1·3144	31·24	68·76	1·48	7·84
56095.....	1·3198	29·78	70·32	1·56	8·36
2310.....	1·3116	29·04	70·96	1·44	8·08
60942.....	1·3123	30·24	69·76	1·40	8·48
60945.....	1·3109	30·60	69·40	1·40	7·72
60950.....	1·3095	28·04	71·96	1·60	8·64
60953.....	1·3034	30·36	69·64	1·36	7·72
60954.....	1·3116	28·80	71·20	1·40	8·28
60955.....	1·3109	28·76	71·24	1·36	7·72
60885.....	1·3007	29·76	70·24	1·45	8·76
60887.....	1·3185	30·76	69·24	1·56	8·64
62411.....	1·3130	28·68	71·32	1·64	8·44
62412.....	1·3150	28·76	71·24	1·60	8·04
62413.....	1·3178	29·00	71·00	1·40	8·04
62703.....	1·3178	28·60	71·40	1·44	7·84
62705.....	1·3178	28·80	71·20	1·40	8·21
63322.....	1·3061	29·88	70·12	1·36	8·00
60057.....	1·3157	30·46	69·54	1·40	8·56
60058.....	1·3144	27·96	72·08	1·32	8·48
60060.....	1·3130	29·52	70·48	1·40	8·08
60061.....	1·3102	28·68	71·32	1·48	8·68
60062.....	1·3150	28·88	71·12	1·52	8·28
60065.....	1·3130	29·44	70·56	1·36	8·52
60066.....	1·3061	30·08	69·92	1·36	8·08
62108.....	1·3123	29·04	70·96	1·44	8·12

## EAGLE—Continued.

No. of Sample.	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.
62114.....	1·3007	31·32	68·68	1·56	8·56
63205.....	1·3109	28·48	71·52	1·64	8·80
53647.....	1·3048	30·08	69·92	1·40	7·92
53649.....	1·3151	31·12	68·88	1·32	7·88
63717.....	1·3213	28·36	71·64	1·32	7·72
63734.....	1·3178	29·08	70·92	1·40	8·28
51921.....	1·3151	28·68	71·32	1·44	9·08
51924.....	1·3191	28·92	71·08	1·44	7·76
50086.....	1·3109	28·56	71·44	1·60	8·12
61606.....	1·3123	29·44	70·56	1·64	8·52
54979.....	1·3213	33·24	66·76	1·48	8·68
54984.....	1·3199	32·00	68·00	1·40	8·32
57778.....	1·3157	28·84	71·16	1·68	8·20
57798.....	1·3171	29·36	70·64	1·40	8·36
Mean.....	1·3077	30·78	69·22	1·46	8·30

## GAZELLE.

2311.....	1·3068	29·36	70·64	1·32	8·20
2312.....	1·2980	34·64	65·36	1·40	8·40
2314.....	1·2899	34·52	65·49	1·46	8·60
60883.....	1·2960	30·32	69·68	1·48	8·28
60888.....	1·3000	29·76	70·24	1·56	8·92
60889.....	1·2833	28·04	71·96	1·60	8·96
60875.....	1·2769	30·96	69·04	1·44	8·64
Mean.....	1·2929	31·09	68·91	1·44	8·87

## GOLD SEAL.

53378.....	1·3109	28·60	71·40	1·52	9·00
60960.....	1·3171	31·68	68·32	1·48	8·08
62415.....	1·3276	28·88	71·12	1·40	7·80
62417.....	1·3157	30·28	69·72	1·44	8·36
63328.....	1·3171	29·76	71·24	1·36	7·92
62111.....	1·3178	28·44	71·56	1·44	8·64
53627.....	1·2594	30·12	69·88	1·40	8·92
61101.....	1·3130	31·88	68·12	1·60	8·32
61104.....	1·3198	30·12	69·88	1·28	7·76
61106.....	1·3269	30·36	69·64	1·48	8·28
63703.....	1·3213	29·96	70·04	1·44	7·92
63711.....	1·3295	28·56	71·44	1·36	7·84
63728.....	1·3157	28·84	71·16	1·24	7·76
63735.....	1·3157	28·32	71·68	1·32	7·88
51918.....	1·3234	28·36	61·64	1·16	8·28
51920.....	1·3157	27·16	72·84	1·44	8·80
51922.....	1·3213	28·40	71·60	1·52	8·92
50074.....	1·3178	29·14	70·86	1·24	8·00
61614.....	1·3157	29·44	70·56	1·72	7·72
54978.....	1·3171	31·28	68·72	1·44	9·38
54983.....	1·3227	29·64	70·36	1·52	8·76
54986.....	1·3102	31·00	69·00	1·36	8·72
57776.....	1·3234	27·64	72·36	1·72	8·68
57786.....	1·3234	28·20	71·80	1·72	7·84
Mean.....	1·3162	29·42	70·62	1·44	8·32

## GOOD LUCK.

53949.....	1·3123	32·18	67·82	1·48	7·80
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## LION.

No. of Sample.	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.
53946.....	1·2993	30·40	69·60	1·64	8·08

## MAYFLOWER.

53944.....	1·3048	30·48	69·52	1·40	7·96
50666.....	1·2993	30·68	69·32	1·44	8·24
50668.....	1·3007	30·84	69·16	1·48	8·20
50671.....	1·2974	30·80	69·20	1·68	8·64
62420.....	1·3075	33·88	66·12	1·44	8·04
Mean .....	1·3019	31·33	68·66	1·49	8·22

## PRIMUS.

2315.....	1·3027	33·64	66·36	1·56	7·92
60881.....	1·2933	31·92	68·08	1·56	8·08
62704.....	1·3061	32·68	67·32	1·60	8·96
Mean .....	1·3027	32·41	67·25	1·57	8·32

## PRINCESS.

53948.....	1·3234	37·64	62·36	1·44	0·12
62109.....	1·3276	36·16	63·84	1·44	0·16
63202.....	1·3297	31·48	68·52	1·64	0·24
63206.....	1·3123	34·12	65·88	1·88	0·00
53618.....	1·3150	33·04	66·96	1·36	0·84
Mean .....	1·3216	34·49	65·51	1·55	0·27

## PURITY.

52947.....	1·3061	30·48	69·52	1·40	7·80
50665.....	1·3075	29·52	70·48	1·36	8·84
50670.....	1·2981	30·00	70·00	1·40	8·72
62419.....	1·3198	31·60	68·40	1·44	7·88
61610.....	1·3034	33·88	66·12	1·68	8·04
Mean .....	1·3069	31·09	68·90	1·45	8·25

## QUAKER.

63208.....	1·2860	31·04	68·96	1·24	8·92
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## REINDEER.

53945.....	1·3027	30·00	70·00	1·48	8·00
50664.....	1·3102	30·48	69·52	1·44	8·76
50669.....	1·2967	30·56	69·40	1·40	9·12
50672.....	1·3171	29·76	70·24	1·24	8·88
50697.....	1·3157	28·00	72·00	1·28	9·12
56100.....	1·3116	29·72	70·28	1·36	8·92
56203.....	1·3137	30·60	69·40	1·44	7·76
53365.....	1·3137	28·16	71·84	1·24	8·12
60951.....	1·3144	29·68	70·32	1·28	7·80
62701.....	1·3178	28·76	71·24	1·28	8·68

## REINDEER—Continued.

No. of Sample.	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.
62709.....	1·3102	31·28	68·72	1·32	7·72
63324.....	1·3213	28·96	71·04	1·28	8·24
62115.....	1·3055	29·84	70·16	1·52	8·88
61103.....	1·3178	28·88	71·12	1·28	8·92
63713.....	1·3144	31·32	68·68	1·28	8·16
63729.....	1·3144	31·08	68·92	1·40	8·60
51917.....	1·3178	28·48	71·52	1·28	8·08
51919.....	1·3164	28·76	71·24	1·32	7·80
50·75.....	1·3137	28·76	71·24	1·36	8·28
50089.....	1·3198	29·28	70·72	1·36	8·56
61615.....	1·3220	29·64	70·36	1·52	7·80
54977.....	1·3185	31·36	68·64	1·44	9·12
54982.....	1·3234	32·00	68·00	1·44	8·64
57772.....	1·3157	30·08	69·92	1·40	8·64
57785.....	1·3171	29·12	70·88	1·36	9·00
Mean.....	1·3145	29·78	70·22	1·36	8·46

## ROSEBUD.

63320.....	1·2987	35·08	64·92	1·60	8·32
51925.....	1·2946	35·56	64·44	1·64	8·36
54981.....	1·2987	34·80	65·20	1·52	8·44
Mean.....	1·2973	35·14	64·85	1·55	8·37

## ROYAL.

62416.....	1·3020	31·52	68·48	1·52	9·80
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## SILVER COW.

56006.....	1·3157	28·36	71·64	1·40	8·00
56201.....	1·3213	29·88	70·12	1·32	7·72
56202.....	1·3191	27·36	72·64	1·40	7·92
56204.....	1·3205	28·04	71·96	1·44	7·84
53362.....	1·3185	28·00	72·00	1·40	8·12
53364.....	1·3137	25·28	74·72	1·36	8·04
2368.....	1·3164	27·68	72·32	1·36	8·60
2316.....	1·3144	31·92	68·08	1·40	7·84
2317.....	1·3137	27·68	72·32	1·24	8·32
2506.....	1·3055	29·52	70·48	1·32	8·60
2514.....	1·3157	28·40	71·60	1·32	7·80
60882.....	1·3068	31·00	69·00	1·52	8·64
60886.....	1·3102	31·40	68·60	1·44	7·84
62418.....	1·3297	26·80	73·20	1·36	8·12
62708.....	1·3164	28·80	71·20	1·40	8·16
63323.....	1·3123	31·16	68·84	1·40	7·76
63325.....	1·3304	31·80	68·20	1·40	8·24
60663.....	1·3248	27·96	72·08	1·44	7·80
63201.....	1·3116	28·92	71·08	1·44	8·72
53622.....	1·3191	28·76	71·24	1·32	8·12
53648.....	1·3205	28·24	71·76	1·48	8·52
Mean.....	1·3169	28·90	71·09	1·41	8·13

## SWISS DAIRY.

62106.....	1·3646	32·08	67·92	1·80	0·40
62112.....	1·3721	31·20	68·80	1·92	0·12
63203.....	1·3623	31·52	68·48	1·96	0·12
63209.....	1·3683	31·20	68·80	2·16	0·08
61102.....	1·3653	36·88	63·12	2·04	0·04
61105.....	1·3646	36·36	63·64	2·16	0·15
61107.....	1·3646	35·12	64·88	1·84	0·15
63719.....	1·3714	36·36	63·64	1·84	0·21
53941.....	1·3796	32·92	67·08	1·56	0·12
Mean.....	1·3681	33·85	66·27	1·92	0·16

## SESSIONAL PAPER No. 14

Name of Brand.	Inspection of 1910.		Inspection of 1914.	
	Number of Samples.	Mean Fat.	Number of Samples.	Mean Fat.
Anchor.....	1	8.28		
Banner.....	3	5.96	6	5.50
Beaver.....	1	7.56	6	8.43
Canadian.....	1	8.16		
Canada First.....	9	7.74	7	8.23
Challenge.....	10	7.83	23	8.53
Cleaves.....			1	7.96
Clover.....	4	7.27	6	8.49
Diploma.....			1	9.00
Eagle.....	13	7.85	39	8.30
Emery's.....	1	7.64		
Gazelle.....			7	8.87
Gold Seal.....	3	7.60	24	8.32
Good Luck.....	1	7.06	1	7.80
Lion.....	1	8.92	1	8.08
Mayflower.....			5	8.22
Nestles (England).....	13	8.27		
" (Norway).....	6	8.69		
" (Swiss).....	5	8.94		
Oak.....	1	8.42		
Pheasant.....	4	4.35		
Primus.....			3	8.32
Princess.....	1	5.40	5	0.27
Purity.....	1	7.64	5	8.25
Quaker.....			1	8.92
Red Cow.....	1	0.60		
Reindeer.....	12	7.97	25	8.46
Rosebud.....			3	8.37
Royal.....	1	4.60	1	9.80
Silver Cow.....	9	7.98	21	8.13
Sweets Pride.....	1	8.28		
Swiss Dairy.....			9	0.16
White Star.....	1	7.96		
	104		200	

Two brands (Princess and Swiss Dairy) are sold as Condensed Skimmed Milk, and meet requirements for this article.

I beg to recommend publication of this report as Bulletin No. 304.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

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BULLETIN No. 304—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cons.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1914.							
May	8	Condensed Milk.	53941 A. L. Doyle & Co., Halifax, N.S.	3 cans	30	Cleeve Bros., Lime- rick, Ire.	Manufacturers..
"	8	"	53942 Canada Food Co., Halifax, N.S.	3 "	34	Aylmer Condensed Milk Co., Ayl- mer, Ont.	"
"	8	"	53943 " "	3 "	32	Borden Milk Co., Montreal.	"
"	11	"	53944 Wm. Moore, Halifax, N.S.	2 "	36	Truro Condensed Milk Co., Truro, N.S.	"
"	11	"	53945 R. B. Seeton, Halifax, N.S.	3 "	39	Borden Milk Co., Montreal.	"
"	11	"	53946 Corkum & Ritcey, Halifax, N.S.	3 "	30	Charlottetown Condensed Milk Co., Charlotte- town, P.E.I.	R. B. Seeton, Halifax, N.S.
"	11	"	53947 A. & W. Smith & Co., Halifax, N.S.	3 "	33	Borden Milk Co., Montreal.	Manufacturers..
"	11	"	53948 Wentzells, Ltd., Halifax, N.S.	3 "	45	John Malcom & Son, St. George, Ont.	"
"	14	"	53949 John Lynch & Son, Windsor, N.S.	3 "	39	St. Charles Cond. Co., St. Charles, Ill.	Jno. Tobin & Co., Halifax, N.S.
"	15	"	53950 Borden Milk Co., Truro, N.S.	3 "	Nil.	Vendors .....	.....

## DISTRICT OF NEW BRUNSWICK—

Mar.	21	Condensed Milk.	50663 W. A. Simonds, St. John, N.B.	3 tins.	54	Borden Milk Co., Ltd., Montreal.	.....
"	23	"	50664 2 Parkers, Ltd., St. John, N.B.	3 "	45	"	.....
"	23	"	50665 H. G. McBeath, St. John, N.B.	3 "	45	"	.....
"	31	"	50666 H. W. Cole, Ltd., St. John, N.B.	3 "	45	"	.....
April	1	"	50667 Geo. E. Barbour Co., Ltd., St. John, N.B.	3 "	30	"	.....
"	21	"	50668 Frank E. Williams Co., Ltd., St. John, N.B.	3 "	30	Truro Condensed Milk Co., Truro, N.S.	.....
"	23	"	50669 Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	40	Borden Milk Co., Ltd., Montreal.	.....
"	25	"	50670 Reed Co., Ltd., Moncton, N.B.	3 "	27	"	.....
"	25	"	50671 Rod McLean, Moncton, N.B.	3 "	45	"	.....
"	25	"	50672 Mrs. P. White, Moncton, N.B.	3 "	36	"	.....

## SESSIONAL PAPER No. 14

## CONDENSED MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.		

## R. J. WAUGH, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.		
Dairy Brand. ....	1·3796	32·92	67·08	1·56	0·12	53941	Skimmed milk. Meets stan- dard.
Canada First Brand. .	1·2926	31·48	68·52	1·40	8·04	53942	Meets standard.
Clover " ...	1·3007	31·00	69·00	1·36	7·76	53943	"
Mayflower " ...	1·3048	30·48	69·52	1·40	7·96	53944	"
Reindeer " ...	1·3027	30·00	70·00	1·48	8·00	53945	"
Lion " ...	1·2993	30·40	69·60	1·64	8·08	53946	"
Purity " ...	1·3061	30·48	69·52	1·40	7·80	53947	"
Princess Brand (Con- densed skim milk).	1·3234	37·64	62·36	1·44	0·12	53948	Skimmed milk. Meets stan- dard.
Good Luck Brand....	1·3123	32·18	67·82	1·48	7·80	53949	Meets standard.
Challenge " ....	1·3109	28·64	71·36	1·40	7·92	53950	"

## JNO. C. FERGUSON, INSPECTOR.

Eagle Brand. ....	1·3144	31·24	68·76	1·48	7·84	50663	Meets standard.
Reindeer " ....	1·3102	30·48	69·52	1·44	8·76	50664	"
Purity " ...	1·3075	29·52	70·48	1·36	8·84	50665	"
Mayflower " ....	1·2993	30·68	69·32	1·44	8·24	50666	"
Clover " ....	1·3123	29·16	70·84	1·32	8·20	50667	"
Mayflower " ....	1·3007	30·84	69·16	1·48	8·20	50668	"
Reindeer " ....	1·2967	30·56	69·40	1·40	9·12	50669	"
Purity " ....	1·2981	30·00	70·00	1·40	8·72	50670	"
Mayflower " ....	1·2974	30·80	69·20	1·68	8·64	50671	"
Clover " ....	1·2993	31·12	68·88	1·52	8·52	50672	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1914.							
Mar. 9	Condensed Milk.	56072	Arthur Drolet, 71 Rue St. Valier, Quebec.	3 bxs.	45	Borden Milk Co., Montreal.	Turcotte & Frere
" 9	" ..	56095	" " " "	3 " ..	45	" ..	" ..
" 9	" ..	56096	J. Masson, 808 Rue St. Valier, Quebec.	3 " ..	45	" ..	Dr. Ed. Morin..
" 9	" ..	56097	" " " "	3 " ..	34	Reindeer Condensed Milk Co., Montreal.	.....
" 10	" ..	56098	J. F. Goslin, 50 Rue D'Orchester, Quebec.	3 " ..	45	Truro Condensed Milk Co., Truro, N.S. and Huntingdon, P.Q.	Boivin & Grenier
" 10	" ..	56099	Cantin & Frere, 271 Rue St. Joseph, Quebec.	3 " ..	36	Borden Milk Co., Montreal.	Unknown .....
" 10	" ..	56100	" " " "	3 " ..	45	" ..	" ..
" 10	" ..	56201	J. D. Marier, 136 Rue D'Orchester, Quebec.	3 " ..	45	" ..	Turcotte & Frere.
" 10	" ..	56202	Elz. Gagnon, 132 Rue D'Orchester, Quebec.	3 " ..	45	" ..	T. Ledroit & Cie.
" 10	" ..	56203	F. X. Goslin, 207 Rue de la Couronne, Quebec.	3 " ..	45	" ..	Turcotte & Frere.
" 10	" ..	56204	" " " "	3 " ..	45	" ..	" ..

## DISTRICT OF EAST QUEBEC—

Mar. 23	Condensed Milk.	53360	T. Lord, St. Cyrille ....	3 cans.	45	Borden Milk Co., Montreal.	N. Turcotte, Quebec.
" 23	" ..	53362	A. Lavoie, St. Eugène..	3 " ..	45	St. Charles Condensing Co., Ingersoll, Ont.	J. B. Letellier, Quebec.
" 23	" ..	53364	F. Dechene, St. Eugène .	3 " ..	45	" ..	.....
" 24	" ..	53365	O. Carboneau, L'Islet....	3 " ..	45	Borden Milk Co., Montreal.	.....
" 24	" ..	53367	J. F. Hudon, L'Islet...	3 " ..	45	Borden Milk Co., Tillsonburg, Ont.	.....
" 24	" ..	53369	Elz. Caron, L'Islet.....	3 " ..	45	Aylmer Condensed Milk Co.	.....
" 25	" ..	53376	F. O. Lavall, St. Aubert .	3 " ..	45	Borden Milk Co., Montreal.	.....
" 25	" ..	53378	F. O. Dubé, St. Aubert..	3 " ..	45	" ..	.....

## DISTRICT OF WEST QUEBEC—

Mar. 12	Condensed Milk.	2308	Alexandre Villeneuve, St. Jerome, P.Q.	3 bxs.	45	Borden Milk Co., Ltd.	.....
" 12	" ..	2309	H. Gingras, St. Jerome, P.Q.	" ..	45	" ..	.....
" 12	" ..	2310	Ovila Lauzon, St. Jerome, P.Q.	" ..	45	" ..	.....
" 12	" ..	2311	Leandre Paquin, St. Jerome, P.Q.	" ..	45	" ..	.....
April 27	" ..	2312	W. C. Forgette, St. Agathe des Monts.	" ..	45	Hudon Hebert & Cie, Montreal.	.....

## SESSIONAL PAPER No. 14

## CONDENSED MILK.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.		

## F. X. W. E. BELAND, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.		
Reindeer .....	1·3171	29·76	70·24	1·24	8·88	56072	Meets standard.
Eagle .....	1·3198	29·78	70·32	1·56	8·36	56095	"
Silver Cow .....	1·3157	28·36	71·64	1·40	8·00	56096	"
Reindeer .....	1·3157	28·09	72·00	1·28	9·12	56097	"
Clover .....	1·3041	28·96	71·04	1·32	8·84	56098	"
Challenge .....	1·3130	31·36	68·64	1·24	8·64	56099	"
Reindeer .....	1·3116	29·72	70·28	1·36	8·92	56100	"
Silver Cow .....	1·3213	29·88	70·12	1·32	7·72	56201	"
" .....	1·3191	27·36	72·64	1·40	7·92	56202	"
Reindeer .....	1·3137	30·60	69·40	1·44	7·76	56203	"
Silver Cow .....	1·3205	28·04	71·96	1·44	7·84	56204	"

## ALP. PELLETIER, INSPECTOR.

Challenge .....	1·3185	29·60	70·40	1·52	7·76	53360	Meets standard.
Silver Cow .....	1·3185	28·00	72·00	1·40	8·12	53362	"
" .....	1·3137	25·28	74·72	1·36	8·04	53364	"
Reindeer .....	1·3137	28·16	71·84	1·24	8·12	53365	"
Challenge .....	1·3220	32·20	67·80	1·40	8·28	53367	"
Beaver .....	1·2933	34·48	65·52	1·52	7·76	53369	"
Clover .....	1·3048	28·52	71·48	1·08	9·32	53376	"
Gold Seal .....	1·3109	28·60	71·40	1·52	9·00	53378	"

## N. CADIEUX AND O. BROCHU, TEMP. INSPECTORS.

Silver Cow .....	1·3164	27·68	72·32	1·36	8·60	2308	Meets standard.
Challenge .....	1·3130	27·64	72·36	1·32	9·96	2309	"
Eagle .....	1·3116	29·04	70·96	1·44	8·08	2310	"
Gazelle .....	1·3068	29·36	70·64	1·32	8·20	2311	"
" .....	1·2980	34·64	65·36	1·40	8·40	2312	"

6 GEORGE V, A. 1916

## BULLETIN NO. 304—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacture or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WEST QUEBEC—							
1913.							
April 27	Condensed Milk.	2313	R. Touchette, St. Agathe des Monts.	3boxes	38	Hudon, Hebert & Cie., Montreal.	Laporte Martin & Cie.
" 27	" ..	2314	Mde. L. W. Brissette, St. Agathe des Monts.	3 "	45		
" 27	" ..	2315	D. Hetu, St. Agathe des Monts.	3 "	45	Hudon & Herbert.	L. Chaput Fils & Cie.
" 27	" ..	2316	Jos. Fournelle, St. Agathe des Monts.	3 "	38	St. Charles Condensing Co.	.....
" 27	" ..	2317	Noe Forgette, St. Agathe des Monts.	3 "	45	Borden Milk.....	.....
Mar. 24	" ..	2502	Cleophas Beaudoin, Armagh.	3 "	45	Borden Milk Co., Montreal.	Quebec Preserving Co., Quebec.
" 24	" ..	2506	Joseph Langlois, Armagh	3 "	45	" ..	Thurcotte & Frere, Quebec.
" 24	" ..	2511	F. X. Bolduc, Armagh...	3 "	36	" ..	Quebec Preserving Co., Quebec.
" 24	" ..	2514	Theodore Bernard, Armagh	3 "	45	" ..	A. Carrier & Fils, Levis.

## DISTRICT OF THREE RIVERS—

Mar. 17	Condensed Milk.	60941	J. A. Jubinville, Joliette, P.Q.	3boxes	37	Borden Milk Co., Ltd., Montreal.	Jos. Dufresne, Joliette.
" 17	" ..	60942	Joseph Mirault, Joliette.	3 "	45	" ..	
" 18	" ..	60945	W. H. Lacasse, L'Assomption.	3 "	35	" ..	
" 11	" ..	60950	H. Ducharme, St. Felix de Valois.	3 "	60	" ..	Jos. Dufresne...
" 11	" ..	60951	W. Brissette, St. Felix de Valois.	3 "	60	" ..	Hudon & Orsali
" 12	" ..	60952	Ulric Desrochers, St Gabriel Brandon.	3 "	60	" ..	Chevalier & Magnan.
" 13	" ..	60953	C. Barrette, Joliette....	3 "	45	" ..	
" 13	" ..	60954	Magnan Freres, Joliette..	3 "	45	" ..	
" 14	" ..	60955	Frs. Rivet, Joliette.....	3 "	40	" ..	
" 13	" ..	60960	Chevalier et Fils, Joliette	3 "	36	" ..	
" 13	" ..	60961	Chevalier & Magnan, Joliette.	3 "	35	" ..	

## DISTRICT OF EASTERN TOWNSHIPS—

April 29	Condensed Milk.	60881	L. D. Girouard, Drummondville.	3boxes	45	.....	L. Chaput fils & Cie, Montreal.
" 30	" ..	60882	E. Bernard, Actonvale. .	3 "	42	Borden Milk Co., Ltd., Montreal.	
May 6	" ..	60883	Herbert & Freres, Granby.	3 "	45	.....	Hudon Hebert & Cie, Montreal.
" 7	" ..	60884	Gosselin & Paradis, Magog.	3 "	45	Aylmer Condensed Milk Co., Ltd.,	
" 7	" ..	60885	B. E. Goyette, Magog...	3 "	45	Bordens. ....	



## SESSIONAL PAPER No. 14

## CONDENSED MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.		

*Concluded.*

		p. c.	p. c.	p. c.	p. c.		
Challenge.....	1-3157	30.88	69.12	1.44	8.04	2313	Meets Standard.
Gazelle.....	1-2899	34.52	65.48	1.40	8.60	2314	"
Primus.....	1-3027	33.64	66.36	1.56	7.92	2315	"
Silver Cow.....	1-3144	31.92	68.08	1.40	7.84	2316	"
" ".....	1-3137	27.68	72.32	1.24	8.32	2317	"
Challenge.....	1-3144	28.36	71.64	1.32	8.32	2502	"
Silver Cow.....	1-3055	29.52	70.48	1.32	8.60	2506	"
Challenge.....	1-3055	29.20	70.80	1.28	8.68	2511	"
Silver Cow.....	1-3157	28.40	71.60	1.32	7.80	2514	"

## Dr V. P. LAVALLEE, INSPECTOR.

Challenge.....	1-3171	33.28	66.72	1.56	8.44	60941	Meets standard.
Eagle.....	1-3123	30.24	69.76	1.40	8.48	60942	"
".....	1-3109	30.60	69.40	1.40	7.72	60945	"
".....	1-3095	28.04	71.96	1.60	8.64	60950	"
Reindeer.....	1-3144	29.68	70.32	1.28	7.80	60951	"
Challenge.....	1-3102	31.32	68.68	1.32	8.00	60952	"
Eagle.....	1-3034	30.36	69.64	1.36	7.72	60953	"
".....	1-3116	28.80	71.20	1.40	8.28	60954	"
".....	1-3109	28.76	71.24	1.36	7.72	60955	"
Gold Seal.....	1-3171	31.68	68.32	1.48	8.08	60960	"
Challenge.....	1-3123	29.48	70.52	1.32	7.84	60961	"

## J. C. ROULEAU, INSPECTOR.

Primus.....	1-2933	31.92	68.08	1.56	8.08	60881	Meets Standard.
Silver Cow.....	1-3068	31.00	69.00	1.52	8.64	60882	"
Gazelle.....	1-2960	30.32	69.68	1.48	8.28	60883	"
Beaver.....	1-2980	32.68	67.32	1.48	8.04	60884	"
Eagle.....	1-3007	29.76	70.24	1.48	8.76	60885	"

6 GEORGE V, A. 1916

BULLETIN No. 304—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS—							
1914.							
May	7	Condensed Milk.	60886 N. Hamel, Magog.....	3boxes	45	Bordens..	
"	7	" ..	60887 G. A. Hoskins, Sutton. .	3 "	45	" ..	
"	8	" ..	60888 H. Messier, St. Hyacinthe	3 "	45	.....	Hudon Hebert & Cie, Montreal.
"	8	" ..	60889 Baginet & Brodeur, St. Hyacinthe.	3 "	45	.....	" ..
"	8	" ..	60890 E. Lafrance, St. Hyacinthe	3 "	30	Aylmer Condensed Milk Co.	
"	8	" ..	60875 Hayes Marchessault, West Shefford.	3 "	45	.....	Hudon Hebert & Cie, Montreal.

## DISTRICT OF MONTREAL—

Mar. 9	Condensed Milk.	62411	A. C. Paquette, 669 Wellington st., Montreal.	3 tins.	45	Bordens Milk Co., Ltd.	
" 9	" ..	62412	Reynolds & Christie, 585 Wellington st., Montreal	3 "	45	" ..	
" 9	" ..	62413	E. Bernard, 304 Hibernia st. Montreal.	3 "	45	" ..	
" 24	" ..	62414	P. J. Ryan, 84 Centre st., Montreal.	3 "	36	" ..	
" 25	" ..	62415	O. P. Leblanc, 779 Charlevoix st., Montreal.	3 "	38	" ..	
" 26	" ..	62416	N. Lanctot, 528 Centre st., Montreal.	3 "	36	Canadian Condensing Co., Ltd., Chesterville, Ont	
" 26	" ..	62417	Boivert Frere, 364 Hibernia st., Montreal.	3 "	38	Borden Milk Co., Ltd.	
April 14	" ..	62418	Wm. Dunn, 396 St. Paul St., Montreal.	3 "	30	" ..	
" 14	" ..	62419	" " ..	3 "	30	" ..	
" 14	" ..	62420	" " ..	3 "	30	" ..	

## DISTRICT OF VALLEYFIELD—

Mar. 16	Condensed Milk	62701	Borden Milk Co., Ltd., Huntingdon, P. Q.	3 tins.	45	Vendors.....	
" 16	" ..	62702	" " ..	3 "	30	" ..	
" 18	" ..	63703	A. Foisy, St. John, P. Q..	3 "	45		
" 23	" ..	62704	Omer Marchand, Beauhar- nois, P. Q.	3 "	45		
" 23	" ..	62705	J. C. Leonard, Beauhar- nois, P. Q.	3 "	45		
" 24	" ..	62706	Arthur MacLean, Bedford, P. Q.	3 "	45		
" 24	" ..	62708	P. P. Larochelle, Farnham, P. Q.	3 "	45		
" 26	" ..	62709	J. G. Higginson, Hawkesbury, Ont.	3 "	50		
April 3	" ..	62710	P. Z. St. Marie, Longueil, P. Q.	3 "	30		

SESSIONAL PAPER No. 14  
CONDENSED MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.		

*Concluded*

		p. c.	p. c.	p. c.	p. c.		
Silver Cow.....	1·3162	31·40	68·60	1·44	7·84	60886	Meets standard.
Eagle .....	1·3185	30·76	69·24	1·56	8·64	60887	"
Gazelle .....	1·3000	29·76	70·24	1·56	8·92	60888	"
" .....	1·2833	28·04	71·96	1·60	8·96	60889	"
Beaver.....	1·2966	30·36	69·64	1·52	9·52	60890	"
Gazelle.....	1·2769	30·96	69·04	1·44	8·64	60875	"

D. J. KEARNEY, INSPECTOR.

Eagle Brand.....	1·3130	28·68	71·32	1·64	8·44	62411	Meets Standard.
" .....	1·3150	28·76	71·24	1·60	8·04	62412	"
" .....	1·3178	29·00	71·00	1·40	8·04	62413	"
Challenge Brand.....	1·3157	30·16	69·84	1·12	8·52	62414	"
Gold Seal " .....	1·3276	28·88	71·12	1·40	7·80	62415	"
Royal " .....	1·3020	31·52	68·48	1·52	9·80	62416	"
Gold Seal " .....	1·3157	30·28	69·72	1·44	8·36	62417	"
Silver Cow Brand.....	1·3297	26·80	73·20	1·36	8·12	62418	"
Purity Brand.....	1·3198	31·60	68·40	1·44	7·88	62419	"
Mayflower Brand.....	1·3075	33·88	66·12	1·44	8·04	62420	"

J. J. COSTIGAN, ACTING INSPECTOR.

Reindeer Brand .....	1·3178	28·76	71·24	1·28	8·68	62701	Meets standard.
Challenge " .....	1·3151	31·04	68·96	1·60	8·88	62702	"
Eagle " .....	1·3178	28·60	71·40	1·44	7·84	62703	"
Primus " .....	1·3061	32·68	67·32	1·60	8·96	62704	"
Eagle " .....	1·3178	28·80	71·20	1·40	8·21	62705	"
Challenge " .....	1·3191	28·52	71·48	1·60	8·32	62706	"
Silver Cow Brand.....	1·3164	28·80	71·20	1·40	8·16	62708	"
Reindeer Brand. ....	1·3102	31·28	68·72	1·32	7·72	62709	"
Challenge Brand.....	1·3157	27·00	73·00	1·40	9·32	62710	"

6 GEORGE V, A. 1916

BULLETIN No. 304—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF OTTAWA—

1914.							
Mar. 26	Condensed Milk	63318	F. J. Castle, Ltd, Ottawa, Ont.	3 tins.	25	Alymer Condensed Milk Co., Ltd., Alymer, Ont.	Mfrs. . . . .
" 26	"	63320	I. Bertrand, Hull, Que.	3 " "	45	" " "	Provost & Allard Ottawa.
" 16	"	63321	H. A. B. Scott Co., Smith's Falls, Ont.	3 " "	38	Borden Milk Co., Ltd., Montreal.	Robertson & Nicoll, Smith's Falls, Ont.
" 16	"	63332	Lucas & McCreary, Smith's Falls, Ont.	3 " "	45	" " "	" " "
" 16	"	63323	A. T. Elliott, Smith's Falls, Ont.	3 " "	45	St. Charles Condensing Co., Ingersoll, Ont.	Robertson & Nicoll, Smith's Falls, Ont.
" 23	"	63324	A. E. Rea Co., Ltd., Ottawa, Ont.	3 " "	45	Borden Milk Co., Montreal.	Lerner & Son, Ottawa.
" 23	"	63325	J. Bambrick, Ottawa, Ont.	3 " "	45	St. Charles Condensing Co., Ingersoll, Ont.	Unknown, . . . .
" 23	"	63326	S. J. Major, Ltd., Ottawa, Ont.	3 " "	34	Alymer Condensed Milk Co., Ltd., Alymer, Ont.	Mfrs. . . . .
" 23	"	63327	" " "	3 " "	31	John Malcolm & Son, St. George, Ont.	Mfrs. . . . .
" 23	"	63328	" " "	3 " "	34	Borden Milk Co., Ltd., Montreal.	" " "

## DISTRICT OF KINGSTON—

Mar. 12	Condensed Milk.	60057	J. Gilbert, Kingston . . . .	3 tins.	45	Borden Milk Co., Montreal.	.. . . .
" 12	"	60058	Anderson Bros., Kingston.	3 " "	45	" " "	.. . . .
" 12	"	60059	H. A. Smith, Kingston . .	3 " "	45	Aylmer Condensed Milk Co., Aylmer, Ont.	.. . . .
" 12	"	60060	E. S. Suddard, Kingston.	3 " "	45	Borden Milk Co., Montreal.	.. . . .
" 12	"	60061	T. H. Sargent, Kingston.	3 " "	45	" " "	.. . . .
" 12	"	60062	Geo. Mahood, Kingston.	3 " "	45	" " "	.. . . .
" 13	"	60063	I. T. Morris, Kingston.	3 " "	39	" " "	.. . . .
" 13	"	60064	R. W. Marshall, Kingston.	3 " "	36	" " "	.. . . .
" 16	"	60065	Wallbridge & Clarke, Belleville.	3 " "	45	Borden Milk Co., Montreal.	.. . . .
" 16	"	60066	W. H. Lanning, Belleville.	3 " "	45	" " "	.. . . .

## DISTRICT OF TORONTO—

Mar. 19	Condensed Milk.	62106	Kirkwood & Sons, 176 Dupont St., Toronto.	3 cans.	30	Cleeve Bros., Liverpool.	.. . . .
" 19	"	62107	The Wm. Davies Co., Ltd., Bathurst and Dupont Sts., Toronto.	3 " "	36	Borden Milk Co., Ltd., Montreal.	.. . . .

## SESSONAL PAPER No. 14

## CONDENSED MILK.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis					No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.		

## J. A. RICKEY, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.		
Beaver Brand.....	1-2899	34.64	65.36	1.88	8.48	63318	Meets standard.
Rosebud " .....	1-2987	35.08	64.92	1.60	8.32	63320	"
Challenge Brand .....	1-3310	27.60	72.40	1.36	8.40	63321	"
Eagle " .....	1-3061	29.88	70.12	1.36	8.00	63322	"
Silver Cow Brand.....	1-3123	31.16	68.84	1.40	7.76	63323	"
Reindeer " .....	1-3213	28.96	71.04	1.28	8.24	63324	"
Silver Cow Brand.....	1-3304	31.80	68.20	1.40	8.24	63325	"
Canada First Brand...	1-3043	28.26	71.64	2.00	8.80	63326	"
Banner Brand .....	1-3089	31.80	68.20	1.52	6.96	63327	Below standard in fat.
Gold Seal Brand.....	1-3171	29.76	71.24	1.36	7.92	63328	Meets standard.

## JAS. HOGAN, INSPECTOR.

Eagle .....	1-3157	30.46	69.54	1.40	8.56	60057	Meets standard.
" .....	1-3144	27.96	72.08	1.32	8.48	60058	"
Canada First .....	1-2987	31.32	68.68	1.64	7.88	60059	"
Eagle .....	1-3130	29.52	70.48	1.40	8.08	60060	"
" .....	1-3102	28.68	71.32	1.48	8.68	60061	"
" .....	1-3150	24.88	71.12	1.52	8.28	60062	"
Silver Cow Brand.....	1-3248	27.96	72.08	1.44	7.80	60063	"
Clover .....	1-3262	26.44	73.56	1.64	8.32	60064	"
Eagle .....	1-3130	29.44	70.56	1.36	8.52	60065	"
" .....	1-3061	30.08	69.92	1.36	8.08	60066	"

## H. J. DAGER, INSPECTOR.

Swiss Dairy Brand, machine skimmed.	1-3646	32.08	67.92	1.80	0.40	62106	Skimmed Milk. Meets standard.
Challenge Brand. ...	1-3048	29.60	70.40	1.32	8.88	62107	Meets standard.

6 GEORGE V, A. 1916

BULLETIN No. 304—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF TORONTO—

1914.							
Mar. 20	Condensed Milk	62108	Legge & Bullock, 1338 Queen St. west, Toronto.	3 Cans	45	Borden Milk Co., Ltd., Montreal.	.....
" 20	"	62109	James Lumbers Co., Ltd., 67 Front St. east, Toronto.	3 " "	30	John Malcolm & Son, Ltd., St. George, Ont.	.....
" 21	"	62110	J. D. Ferguson, 19 Danforth Ave., Toronto.	3 " "	39	Cleeve Bros., Liverpool.	.....
" 21	"	62111	The T. Eaton Co., Ltd., Toronto.	3 " "	39	Borden Milk Co., Ltd., Montreal.	.....
Apr. 2	"	62112	D. MacMillan, 1098 Queen St. east, Toronto.	3 " "	30	Cleeve Bros., Liverpool.	.....
" 3	"	62113	G. T. Melhuish, 587 Yonge St., Toronto.	3 " "	35	Borden Milk Co., Ltd., Montreal.	.....
" 3	"	62114	R. Higgins & Son, 804 Yonge St., Toronto.	3 " "	45	"	.....
" 3	"	62115	F. Giles, 822 Yonge St., Toronto.	"	45	"	.....
" 7	"	62116	J. Butcher & Son, 139 Peter St., Toronto.	"	40	Wills United Daries, Ltd., Devizes, Eng.	.....

## DISTRICT OF HAMILTON—

April 15	Condensed Milk	63201	T. E. Ryerson & Co., 18 Market St., Brantford	3 Cans	45	Borden Milk Co., Ltd., Montreal.	.....
" 15	"	63202	G. R. Millard, 103 Colborne St., Brantford.	"	38	John Malcolm & Son, St. George, Ont.	.....
" 16	"	63203	J. Burns, 32 Dalhousie St., Brantford.	"	30	Cleeve Bros., Liverpool, Eng.	.....
" 21	"	63204	J. A. Bicknell, Dunnville.	"	35	Borden Milk Co., Ltd., Montreal.	.....
" 21	"	63205	J. Nalt & Son, Dunnville.	"	45	"	.....
" 22	"	63206	J. H. Stanley, Port Colborne.	"	45	John Malcolm & Son, St. George.	.....
" 23	"	63207	L. Blanchard, Welland.	"	40	Aylmer Condensed Milk Co., Ltd., Aylmer, Ont.	.....
" 30	"	63208	F. A. Nixon, 313 Barton St., Hamilton.	"	45	Dominion Canners Ltd., Hamilton.	.....
" 30	"	63209	E. M. Precious, 409 Barton St., Hamilton.	"	30	Cleeve Bros., Limerick.	.....
" 30	"	63210	H. W. Eaton, 447 Barton St., Hamilton.	"	45	John Malcolm & Son, Ltd., St. George, Ont.	.....

## DISTRICT OF WINDSOR—

Mch. 9	Condensed Milk.	53618	F. McDougall, Ingersoll.	3 Tins	45	John Malcolm & Son, St. George, Ont.	.....
" 9	"	53622	S. M. Fleet, Ingersoll.	"	45	Borden Milk Co., Montreal.	.....
" 11	"	53627	R. M. Teall, Ingersoll.	"	45	"	.....

## SESSIONAL PAPER No. 14

## CONDENSED MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.		
<i>Concluded.</i>							
		p.c.	p.c.	p.c.	p.c.		
Eagle Brand....	1-3123	29.04	70.96	1.44	9.12	62108	Meets standard.
Princess Brand. Ma- chine skimmed.	1-3276	36.16	63.84	1.44	0.16	62109	Skimmed Milk. Meets standard.
Full Cream Milk. Cleeve's.	1-2933	33.56	66.44	1.48	7.96	62110	Meets standard.
Gold Seal Brand.....	1-3178	28.44	71.56	1.44	8.64	62111	"
Swiss Dairy " ....	1-3721	31.20	68.80	1.92	0.12	62112	Skimmed Milk. Meets standard.
Challenge " ....	1-3116	30.92	69.08	1.64	8.88	62113	Meets standard.
Eagle Brand.....	1-3077	31.32	68.68	1.56	8.56	62114	Meets standard.
Reindeer Brand. ....	1-3035	29.84	70.16	1.52	8.88	62115	"
Diploma " .....	1-3095	29.08	70.92	1.36	9.00	62116	"

## H. J. DAGER, ACTING INSPECTOR.

Silver Cow Brand. ....	1-3116	28.92	71.08	1.44	8.72	63201	Meets standard.
Princess " ....	1-3297	31.48	68.52	1.64	0.24	63202	Skimmed Milk. Meets standard.
Swiss Dairy " ....	1-3623	31.52	68.48	1.96	0.12	63203	" "
Challenge " ....	1-2853	31.32	68.68	1.68	8.80	63204	Meets standard.
Eagle " ....	1-3109	28.48	71.52	1.64	8.80	63205	"
Princess " ....	1-3123	34.12	65.88	1.88	0.00	63206	Skimmed Milk. Meets standard.
Canada First " ....	1-2846	31.44	68.56	1.36	8.72	63207	Meets standard.
Quaker " ....	1-2860	31.04	68.96	1.24	8.92	63208	"
Swiss Dairy " ...	1-3683	31.20	68.80	2.16	0.08	63209	Skimmed Milk. Meets standard.
Banner " ....	1-3269	33.36	66.64	1.60	4.84	63210	Below standard in fat.

## JNO. TALBOT, INSPECTOR.

Princess Brand. Skim- med Milk.	1-3150	33.04	66.96	1.36	0.84	53618	Skimmed Milk. Meets standard.
Silver Cow Brand.....	1-3191	28.76	71.24	1.32	8.12	53622	Meets standard.
Gold Seal " ....	1-2594	30.12	69.88	1.40	8.92	53627	"

6 GEORGE V, A. 1916

BULLETIN No. 304—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1914.							
Mar. 11	Condensed Milk.	73628	J. A. Trestain, Ingersoll.	3 tins.	30	Borden Milk Co., Montreal.	
" 11	" ..	53632	G. O. Werrett, Simcoe...	" "	45	John Malcolm & Son, St. George.	
" 12	" ..	53639	H. L. Stratton, Aylmer, Ont.	" "	45	Aylmer Condensed Milk Co., Aylmer, Ont.	
" 12	" ..	53641	Young & Caven, Aylmer, Ont.	" "	45	" "	
" 13	" ..	53647	Fitzgibbon, London, Ont.	" "	54	Borden Condensed Milk Co., Montreal.	
" 13	" ..	53648	R. A. Ross, London, Ont.	3 "	45	" "	
" 13	" ..	53649	Harry Coates, London South, Ont.	3 "	45	" "	

## DISTRICT OF MANITOBA—

Mar. 11	Condensed Milk.	61101	A. Douglass, Isabel st., Winnipeg.	3 tins.	45	Borden Milk Co., Ltd., Montreal.	
" 11	" ..	61102	" " "	3 "	30	Cleeve Bros., Lim-erick.	Kirwood Sons, Toronto.
" 11	" ..	61103	Hudson's Bay Co, Win-nipeg.	3 "	41	Borden Milk Co., Ltd., Montreal.	
" 12	" ..	61104	Laurie Bros., Corydon ave., Winnipeg.	3 "	45	" "	
" 12	" ..	61105	" " "	3 "	45	Cleeve Bros., Lim-erick.	Kirwood Sons, Toronto.
" 16	" ..	61106	McBean's Grocery, Nas-sau st., Winnipeg.	3 "	45	Borden Milk Co., Ltd., Montreal.	
" 16	" ..	61107	" " "	3 "	30	Cleeve Bros., Lim-erick.	Kirwood Sons, Toronto.
" 16	" ..	61108	The T. Brown & Co., Pembina st., Winnipeg.	3 "	30	Aylmer Condensed Milk Co., Ltd., Aylmer, Ont.	
" 17	" ..	61109	J. Paterson, Main st., North Winnipeg.	3 "	38	John Malcolm & Son, St. George, Ont.	
" 17	" ..	61110	Max Bryer, 1238 Main st., Winnipeg.	3 "	40	" "	

## DISTRICT OF SASKATCHEWAN—

Mar. 26	Condensed Milk.	63703	Maple Leaf Dept. Store, Regina.	3 cans.	40	Borden Milk Co., Ltd., Montreal.	
" 30	" ..	63711	Biggs Bros., Regina ....	3 "	40	" "	
" 30	" ..	63713	Crown Grocery, Regina...	3 "	55	" "	
" 30	" ..	63717	The Central Grocery, Regina.	3 "	45	" "	
" 30	" ..	63719	The Colonial Grocery, Regina.	3 "	30	" "	Kirwood & Sons, Toronto.
April 1	" ..	63728	J. G. Boyd, Regina .....	3 "	45	Borden Milk Co., Montreal.	
" 1	" ..	63729	" .....	3 "	55	" "	



SESSIONAL PAPER No: 14  
CONDENSED MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.		

*Concluded.*

		p. c.	p. c.	p. c.	p. c.		
Challenge Brand . . . .	1·2993	28·40	71·60	1·44	8·52	53628	Meets standard.
Banner " . . . .	1·3130	33·48	66·52	1·48	5·80	53632	Below standard in fat.
Canada First " . . . .	1·2840	31·48	68·52	1·52	8·04	53639	Meets standard.
" . . . .	1·2960	30·76	69·24	1·56	8·20	53641	"
Eagle Brand . . . . .	1·3048	30·08	69·92	1·40	7·92	53647	"
Silver Cow Brand. . . . .	1·3205	28·24	71·76	1·48	8·52	53648	"
Eagle Brand. . . . .	1·3151	31·12	68·88	1·32	7·88	53649	"

A. C. LARIVIERE, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.		
Gold Seal Brand . . . .	1·3130	31·88	68·12	1·60	8·32	61101	Meets standard.
Swiss Dairy Brand . . .	1·3653	26·88	63·12	2·04	0·04	61102	Skimmed milk. Meets stan- dard.
Reindeer Brand. . . .	1·3178	28·88	71·12	1·28	8·92	61103	Meets standard.
Gold Seal Brand. . . . .	1·3198	30·12	69·88	1·28	7·76	61104	"
Swiss Dairy Brand. . . .	1·3646	36·36	63·64	2·16	0·15	61105	Skimmed milk. Meets stan- dard.
Gold Seal Brand. . . . .	1·3269	30·36	69·64	1·48	8·28	61106	Meets standard.
Swiss Dairy Brand. . . .	1·3646	35·12	64·88	1·84	0·15	61107	Skimmed milk. Meets stan- dard.
Canada First Brand. . .	1·2980	30·28	69·72	1·52	7·92	61108	Meets standard.
Banner Brand. . . . .	1·3269	32·12	67·88	1·80	6·72	61109	Below standard in fat.
" . . . . .	1·3297	29·48	70·52	1·40	3·76	61110	" "

JNO. O. SCOTT, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.		
Gold Seal . . . . .	1·3213	29·96	70·04	1·44	7·92	63703	Meets standard.
" . . . . .	1·3205	28·56	71·44	1·36	7·84	63711	"
Reindeer. . . . .	1·3144	31·32	68·68	1·28	8·16	63713	"
Eagle. . . . .	1·3213	28·36	71·64	1·32	7·72	63717	"
Swiss Dairy . . . . .	1·3714	36·36	63·64	1·84	0·21	63719	Skimmed milk. Meets stan- dard.
Gold Seal . . . . .	1·3157	28·84	71·16	1·24	7·76	63728	Meets standard.
Reindeer. . . . .	1·3144	31·08	68·92	1·40	8·60	63729	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF SASKATCHEWAN—

1914.							
April 1	Condensed Milk.	63730	C. W. Sherwood, Regina.	3 cans	30	John Malcolm & Son, St. George, Ont.	.....
" 1	"	63734	A. R. Fachnir, Regina...	3 "	45	Borden Condensed Milk Co., Montreal.	.....
" 1	"	63735	Crown Grocery, Regina...	3 "	45	"	.....

## DISTRICT OF ALBERTA—

Mar. 18	Condensed Milk.	51917	Sprague & Williamson, Moose Jaw.	3 tins.	50	Borden Milk Co., Montreal.	.....
" 18	"	51918	Taylor Bros., Moose Jaw.	3 "	45	"	.....
" 18	"	51919	Spencer & Todd, Moose Jaw.	3 "	50	"	.....
" 19	"	51920	H. A. McKillop Co., Lethbridge.	3 "	45	"	.....
" 19	"	51921	Hudson Bay Co., Lethbridge.	3 "	55	"	.....
" 19	"	51922	Bentley Co., Lethbridge.	3 "	45	"	.....
" 21	"	51923	Campbell, Wilson & Horne, Calgary.	3 "	32	"	.....
" 21	"	51924	Geo. J. Wood, Calgary...	3 "	55	"	.....
" 23	"	51925	H. H. Cooper Co., Edmonton.	3 "	48	Aylmer Condensed Milk Co., Aylmer, Ont.	.....
" 23	"	51926	J. H. Morris & Co., Edmonton.	3 "	45	Borden Condensed Milk Co., New York.	.....

## DISTRICT OF ROCKY MOUNTAINS—

Feb. 17	Condensed Milk.	50074	L. C. Msson, Revelstoke, B.C.	3 tins.	45	Borden Milk Co., Montreal.	.....
" 17	"	50075	" " "	3 "	45	"	.....
April 1	"	50086	Jeff. Davis & Co., Grand Forks, B.C.	3 "	45	"	.....
" 13	"	50089	W. J. Woods, Enderby, B.C.	3 "	50	"	.....
May 2	"	61606	Hudson Bay Co., Nelson, B.C.	3 "	50	"	.....
" 2	"	61610	Bell Trading Co., Nelson, B.C.	3 "	50	"	.....
" 12	"	61614	Hosmer Industrial Assoc. Hosmer, B.C.	3 "	55	"	.....
" 12	"	61615	Bohemian & Russian Store, Hosmer, B.C.	3 "	50	"	.....

## SESSIONAL PAPER No. 14

## CONDENSED MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.		

*Concluded.*

		p. c.	p. c.	p. c.	p. c.		
Banner. . . . .	1-2960	37-04	62-96	1-44	4-92	63730	Below Standard in fat.
Eagle . . . . .	1-3178	29-08	70-92	1-40	8-28	63734	Meets Standard.
Gold Seal. . . . .	1-3157	28-32	71-68	1-32	7-88	63735	"

## A. W. R. MARKLEY, INSPECTOR.

Reindeer. . . . .	1-3178	28-48	71-52	1-28	8-08	51917	Meets Standard.
Gold Seal. . . . .	1-3234	28-36	71-64	1-16	8-28	51918	"
Reindeer. . . . .	1-3164	28-76	71-24	1-32	7-80	51919	"
Gold Seal. . . . .	1-3157	27-16	72-84	1-44	8-80	51920	"
Eagle . . . . .	1-3151	28-68	71-32	1-44	9-08	51921	"
Gold Seal. . . . .	1-3213	28-40	71-60	1-52	8-92	51922	"
Challenge. . . . .	1-3089	28-08	71-92	1-32	8-84	51923	"
Eagle . . . . .	1-3191	28-92	71-08	1-44	7-76	51924	"
Rosebud . . . . .	1-2946	35-56	64-44	1-64	8-36	51925	"
Challenge. . . . .	1-3157	28-12	71-88	1-56	8-52	51926	"

## THOS. PARKER, INSPECTOR.

Gold Seal Brand. . . . .	1-3178	29-14	70-86	1-24	8-00	50074	Meets Standard.
Reindeer " . . . . .	1-3137	28-76	71-24	1-36	8-28	50075	"
Eagle " . . . . .	1-3109	28-56	71-44	1-60	8-12	50086	"
Reindeer " . . . . .	1-3198	29-28	70-72	1-36	8-56	50089	"
Eagle " . . . . .	1-3123	29-44	70-56	1-64	8-52	61606	"
Purity " . . . . .	1-3034	33-88	66-12	1-68	8-04	61610	"
Gold Seal Brand. . . . .	1-3157	29-44	70-56	1-72	7-72	61614	"
Reindeer " . . . . .	1-3220	29-64	70-36	1-52	7-80	61615	"

6 GEORGE V, A. 1916  
BULLETIN No. 304—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VANCOUVER—

1914.							
Mch. 31	Condensed Milk.	54977	T. W. Turner, 890 Pender St., Vancouver, B.C.	3 tins.	45	Borden Milk Co., Ltd., Montreal.	
" 31	"	54978	Peace River Grocery Stores Ltd., 819 Granville St., Vancouver, B.C.	3 "	45	" "	
" 31	"	54979	F. W. Walford, 950 Granville St., Vancouver, B.C.	5 "	45	" "	
" 31	"	54980	National Stores Ltd., 1089 Granville St., Vancouver, B.C.	3 "	30	Aylmer Condensed Milk Co., Aylmer, Ont.	
April 22	"	54981	David Spencer, Ltd., Vancouver, B.C.	3 "	40	" "	
" 28	"	54982	The Cow Butter Store, 195 Hasting St., East, Vancouver, B.C.	3 "	45	Borden Milk Co., Ltd., Montreal.	
" 28	"	54983	Dukes Grocery, 299 Hastings St., East, Vancouver, B.C.	3 "	40	" "	
" 28	"	54984	J. Lowenthal, 2242 Main St., Vancouver, B.C.	3 "	45	" "	
" 28	"	54985	Efford Bros., 244 Broadway, East, Vancouver, B.C.	3 "	30	Aylmer Condensed Milk Co., Aylmer, Ont.	
" 28	"	54986	Gibson & Brown, 2250 Cambie St., South, Vancouver, B.C.	3 "	40	Borden Milk Co., Ltd., Montreal.	

## DISTRICT OF VICTORIA—

Mch. 12	Condensed Milk.	57772	F. E. Plummer, 1118 Quadra St., Victoria, B.C.	3 tins.	45	Borden Milk Co., Ltd., Montreal.	
" 12	"	57776	C. F. Wood, 971 Yates St., Victoria, B.C.	3 "	45	" "	
" 12	"	57778	James Adam, 1023 Cook St., Victoria B.C.	3 "	45	" "	
" 13	"	57785	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	3 "	40	" "	
" 13	"	57786	" " " "	3 "	40	" "	
" 17	"	57791	Dixie H. Ross & Co., 1317 Govt. St., Victoria, B.C.	3 "	45	Borden Condensed Milk Co., New York, U.S.A.	
" 17	"	57798	Fenerty Bros., Oak Bay Junction, Victoria, B.C.	3 "	50	Borden Milk Co., Montreal.	

## SESSIONAL PAPER No. 14

## CONDENSED MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Water.	Total Solids.	Ash.	Fat.		

## E. J. MORGAN, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.		
Reindeer Brand.....	1-3185	31-36	68-64	1-44	9-12	54977	Meets standard.
Gold Seal ".....	1-3171	31-28	68-72	1-44	9-38	54978	"
Eagle ".....	4-3213	33-24	66-76	1-48	8-68	54979	"
Beaver ".....	1-3020	33-68	66-32	1-56	8-88	54980	"
Rose Bud ".....	1-2987	31-80	65-20	1-52	8-44	54981	"
Reindeer ".....	1-3234	32-00	68-00	1-44	8-64	54982	"
Gold Seal ".....	1-3227	29-64	70-36	1-52	8-76	54983	"
Eagle ".....	1-3199	32-00	68-00	1-40	8-83	54984	"
Beaver ".....	1-3109	30-60	69-40	1-44	7-92	54985	"
Gold Seal ".....	1-3102	31-00	69-00	1-36	8-72	54986	"

## D. O'SULLIVAN, INSPECTOR.

Reindeer Brand.....	1-3157	30-08	69-92	1-40	8-64	57772	Meets standard.....
Gold Seal ".....	1-3234	27-64	72-36	1-72	8-68	57776	"
Eagle ".....	1-3157	28-84	71-16	1-68	8-20	57778	"
Reindeer ".....	1-3171	29-12	70-88	1-36	9-00	57785	"
Gold Seal ".....	1-3284	28-20	71-80	1-72	7-84	57786	"
Challenge ".....	1-3137	31-96	68-04	1-32	8-52	57791	"
Eagle ".....	1-3171	29-36	70-64	1-40	8-36	57798	"

## APPENDIX U.

## BULLETIN No. 305—EVAPORATED MILK.

OTTAWA, 8th March, 1915.

J. U. VINCENT, Esq.,  
Deputy Minister Inland Revenue,

SIR,—I beg to submit a report upon one hundred and seventy-eight (178) samples of Evaporated Milk, purchased by our inspectors, as therein described, in March, April and May of last year.

This report has been delayed on account of the necessity for taking in hand, work which, in its nature, could not so well wait, without injury.

Our last inspection of evaporated milk was made in 1910 (See Bull. 208). At that time nine (9) brands were found on the Canadian market. The present report deals with fourteen (14) brands, seven of which were not found in 1910, while two brands then found, are not represented. Details will be found in Table II, which at the same time shows the average results for the brands therein named. This average value is a better guide to an opinion as to the quality of the brand than the result obtained with single samples; and for this reason, it is undesirable to form a judgment as to the nature of the article in cases where only one or two samples of a brand have been submitted for analysis. Such results apply to the particular samples only.

Legal standards for evaporated milk are defined by Order in Council of 3rd November, 1910, and published in circular G. 934 of this Department. "Evaporated Milk is milk from which a considerable portion of water has been evaporated, and contains not less than 26 per cent of milk solids, and not less than 7.20 per cent of milk fat."

The U.S.A. Standard, as established in 1906, required 28 per cent of total solids, and 7.7 per cent of milk fat. While this standard was satisfactory so far as natural milk produced in Middle and Eastern States was concerned, it was found that, owing to climatic and food conditions, in the extreme west the non-fat solids demanded were relatively too high for the fat content. American requirements have therefore been modified by the Department of Agriculture and the following are promulgated under date 20th November, 1914:—

Milk fat.....	7.8 per cent.
Non-fat solids.....	17.7 per cent.
Total solids.....	25.5 per cent.

While no complaint has been made by Canadian manufacturers it is altogether probable that changed conditions of production in the extreme west of Canada may justify same modification of our standards as regards relative fat and non-fat solids, in evaporated whole-cream milk. Of course the partial removal of cream from normal milk, before concentration, will result in a product in which the non-fat solids will be relatively predominant.

The following brands show an average content in both solids and fat, which practically meets our present standard requirements of 26 per cent total solids and 7.20 per cent of fat.

Canada first—mean of 30 samples.	Solids	26.52	Fat	7.51
Carnation " 3 "	"	25.72	"	7.19
Jersey Cream " 12 "	"	27.14	"	7.67
Peerless " 31 "	"	26.03	"	7.10
Reindeer " 2 "	"	27.25	"	7.45
St. Charles " 60 "	"	26.51	"	7.42

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One of these brands (Carnation) shows a somewhat lower content in solids than corresponds to the content of fat. This becomes more pronounced in the following:

B.C. brand—mean of 6 samples.	Solids	22.63	Fat	6.74
Empress “ 1 “	“	22.35	“	6.48
Spencers Perfect “ 1 “	“	21.92	“	6.21

It is unfortunate that two of these are represented by single samples only; but the showing, unconvincing as it is, would seem to indicate that milk of the extreme west possesses a somewhat lower relative content of non-fat solids than that of Eastern Canada.

Evaporated milk, as judged from the results of this inspection, appears to be a very satisfactory food product; and the occasional and exceptional occurrence of a sample, slightly below normal, may be held to be almost unavoidable when we take into consideration the variability of the material (milk) used in its production. The season of the year; the state of the pasture, the character of the herd, and other factors, necessarily cause variation in the character of milk; and so long as cases of failure to meet standard requirements are relatively few, and the deficiencies small, there may be considered no evidence of any intent to defraud the purchaser. The fat content is, of course, the most important, from the consumer's point of view. Six brands show decided deficiency in this respect, namely:

B.C. showing a mean fat	6.74	for 6 samples.
Empress “	6.48	“ 1 “
Gazelle “	6.62	“ 2 “
Primus “	6.39	“ 2 “
Spencers Perfect “	6.21	“ 1 “
St. George “	6.77	“ 19 “

Utility brand is labelled and sold as a skimmed milk, and meets the defined requirements for such an article.

I beg to recommend publication of this report as Bulletin No. 305.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst.*

TABLE II.  
Evaporated Milk—Unsweetened.

Name of Brand.	Bulletin 208.			Bulletin 305.		
	Number samples examined.	Means.		Number samples examined.	Means.	
		Solids.	Fat.		Solids.	Fat.
B.C. ....	3	25.29	5.92	6	22.63	6.74
Canada First.....	8	29.02	7.52	30	26.52	7.51
Carnation.....	2	23.86	6.74	3	25.72	7.19
Empress.....	1	30.20	8.12	1	22.35	6.48
Imperial.....	1	22.04	5.64	.....	.....	.....
Gazelle.....	.....	.....	.....	2	25.53	6.62
Jersey Cream.....	11	27.47	7.27	12	27.14	7.67
Libby's.....	1	24.64	6.00	.....	.....	.....
Peerless.....	6	26.97	6.70	31	26.11	7.21
Primus.....	.....	.....	.....	2	25.39	6.39
Quaker.....	.....	.....	.....	6	26.08	7.00
Reindeer.....	.....	.....	.....	2	27.25	7.45
Spencer's Perfect.....	.....	.....	.....	1	21.92	6.21
St. Charles.....	12	26.64	6.94	60	26.54	7.44
St. George.....	.....	.....	.....	19	25.55	6.97
Utility.....	.....	.....	.....	3	23.47	6.26

## BULLETIN No. 305—EVAPORATED MILK.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
			Quantity.		Cents.	Manufacturer.	Furnisher.		Total Solids.	Fat.	Non-fat Solids.			
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.														
1914.														
May 8	Evaporated Milk.	53961	A. L. Doyle & Co., Halifax, N.S.	Ch. Town Condensed Milk Co., Ch. Town, P.E.I.	30 cans		30	Empress Brand.	22.35	6.48	15.87	53961	Below standard in solids and fat.	
" 8	"	53962	Canada Food Co., fax, N.S.	Borden Milk Co., Montreal.	"		11	Peerless "	27.85	7.47	20.38	53962	Meets standard.	
" 8	"	53963	" " " "	" " " "	"		25	Jersey "	26.54	7.08	19.46	53963	"	
" 11	"	53964	R. B. Seaton & Co., Halifax, N.S.	" " " "	"		21	St. Charles "	29.60	8.40	21.20	53964	"	
" 11	"	53965	A. & W. Smith & Co., Halifax, N.S.	Aylmer Condensed Milk Co., Aylmer, Ont.	"		25	Canada First "	25.10	6.65	18.45	53965	Below standard in solids and fat.	
" 11	"	53966	Wentzells, Ltd., fax, N.S.	J. Malcolm & Son, St. George, Ont.	"		18	St. George "	27.90	8.33	19.23	53966	Meets standard.	
" 15	"	53967	McCulloch, Creelman & Uphardt, Truro, N.S.	Borden Milk Co., Montreal.	"		25	Jersey "	29.55	8.05	21.50	53967	"	
" 18	"	53968	Coleman Eisener, Dartmouth, N.S.	John Malcolm & Son, St. George, Ont.	"		36	R. B. Seaton, Halifax, N.S.	25.13	7.29	17.84	53968	Nearly up to standard.	
" 18	"	53969	B. O. Bishop, Dartmouth, N.S.	Borden Milk Co., Montreal.	"		15	Peerless "	25.90	7.25	18.65	53969	Meets standard.	
" 18	"	53970	Payzant & King, fax, N.S.	" " " "	"		15	St. Charles "	25.85	7.45	18.40	53970	"	

## DISTRICT OF NEW BRUNSWICK—JNO. C. FERGUSON, INSPECTOR.

Mar. 21	Evaporated Milk.	50673	W. A. Simonds, John, N.B.	Aylmer Condensed Milk Co., Hamilton, Ont.	30 tins.	30	Canada First Brand.	25.25	7.75	17.50	50673	Nearly up to standard.
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"	22	"	50674	Barkess, Ltd., John, N.B.	Ltd., St. 3	"	30	Borden Milk Co., Ltd., Truro, N.S.	Jersey	"	28-30	7-77	20-53	50674	Meets standard.
"	23	"	50675	H. G. McBeath, John, N.B.	St. 3	"	45	Borden Milk Co., Ltd., Montreal.	St. Charles	"	25-70	7-18	18-52	50675	"
"	31	"	50676	H. W. Cole, Ltd., John, N.B.	St. 3	"	30	J. Malcolm & Son, St. George, Ont.	St. George	"	24-60	6-96	17-70	50676	Below standard in solids and fat.
April	1	"	50677	Geo. E. Barbour, N.B. Ltd., St. John, N.B.	3	"	15	Borden Milk Co., Ltd., Montreal.	Peerless	"	25-50	7-22	18-28	50677	Meets standard.
"	20	"	50679	Varward Bros., St. John, N.B.	3	"	40	J. Malcolm & Son, St. George, Ont.	St. George	"	23-40	6-75	16-65	50679	Below standard in solids and fat.
"	23	"	50680	Sussex Mercantile, Ltd., Sussex, N.B.	3	"	40	Borden Milk Co., Ltd., Montreal.	Jersey	"	27-70	7-34	20-35	50680	Meets standard.
"	25	"	50681	Reed Co., Ltd., Moncton, N.B.	3	"	25	"	"	"	27-90	8-26	19-70	50681	"
"	25	"	50682	Reed Co., Ltd., Moncton, N.B.	3	"	30	"	St. Charles	"	30-20	8-42	21-78	50682	"
"	25	"	50688	H. T. Brewster, Moncton, N.B.	3	"	36	"	"	"	28-30	7-95	20-55	50688	"

## DISTRICT OF QUEBEC CITY—F. X. W. E. BELAND, INSPECTOR.

Mar.	9	Evaporated Milk.	56265	Arthur Drolet, 712 Rue St. Valer, Quebec.	3 box 3/4	45	Reindeer' Truro, N.S.	Turcotte & Reindeer Brand.	28-60	7-60	21-00	56265	Meets standard.	
"	10	"	56268	Cantin & Frey, 271 Rue St. Joseph, Quebec.	3 "	45	St. Charles Condensing Co.,	Unknown	St. Charles "	26-25	7-40	18-85	56268	"
"	11	"	56269	Elzear Turcotte, 74 Rue Dostalos, Quebec.	3 "	36	Borden Milk Co., Montreal.	J. B. Renaud & Cie.	"	26-40	6-80	19-60	56269	"
"	11	"	56210	"	3 "	30	"	Mrs. Peerless Brand...	Peerless Brand...	25-65	7-05	18-60	56210	"
"	11	"	56211	National Railway, 883 Rue du Pont, Quebec.	3 "	45	St. Charles Condensing Co.,	J. B. Renaud	St. Charles "	26-10	7-25	18-85	56211	"
"	11	"	56212	A. Lynamais, 51 Rue du Pont, Quebec.	3 "	45	"	Unknown	"	25-15	7-00	18-15	56212	Below standard in solids and fat.
"	12	"	56213	C. S. Rivetier, 55 Rue de la Couronne, Quebec.	3 "	15	Borden Milk Co., New York.	Turcotte & Peerless	"	26-70	7-40	19-30	56213	Meets standard.
"	12	"	56214	"	3 "	45	Borden Milk Co., Montreal.	"	St. Charles "	25-00	7-27	17-73	56214	Nearly up to standard.

## DISTRICT OF EAST QUEBEC—ALPH. PELLETIER, INSPECTOR.

Mar.	24	Evaporated Milk.	53368	J. A. Dionne, L'Islet.	3 cans	45	.....	.....	St. Charles Brand	25-35	6-38	18-97	53368	Below standard in solids and fat.
"	25	"	53374	F. Lavale, St. Jean	3 "	45	.....	.....	Turcotte & Peerless frere, Quebec.	25-40	7-24	18-16	53374	Nearly up to standard.
"	31	"	53384	J. Gammond, St. Philé.	3 "	45	St. Charles Milk Co., Ingersoll, Ont.	Evap.	St. Charles "	25-10	7-29	17-81	53384	"

BULLETIN No. 305—EVAPORATED MILK.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample	Remarks and opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Total Solids.	Fat.	Non-Fat Solids.		

DISTRICT OF THREE RIVERS—DR. V. P. LAVALLEE, INSPECTOR.

1914.									p. c.	p. c.	p. c.		
Mar. 17	Evaporated Milk.	60943	Wm. Perrault, Joliette, 3 box's	30		Borden Milk Co., Ltd., Montreal.	Jos. Dufresne, Joliette.	Pearless Brand.	25.06	7.13	17.93	60943	Nearly up to standard.
"	"	60944	" " " 3 "	15		Aylmer Condensed Milk Co., Ont.	"	Canada First Brand.	28.40	7.97	20.43	60944	Meets standard.
"	"	60946	Arthur Lafortune, L'As-sumption.	37		Borden Milk Co., Montreal.	"	Pearless Brand.	27.47	7.35	20.12	60946	"
"	"	60959	J. A. Lavallee, Joliette, 3 "	35		"	"	"	28.85	7.25	21.60	60959	"
"	"	60962	Chevalier & Magnan, Joliette, 3 "	25		"	"	St. Charles Brand	25.82	7.28	18.54	60962	"
"	"	60963	J. A. Boisvert, Joliette, 3 "	30		"	"	Pearless "	27.10	7.28	19.82	60963	"
"	"	60966	Deleune & Peard, Joliette, 3 "	30		"	"	"	26.85	7.19	19.66	60966	"

DISTRICT OF EASTERN TOWNSHIPS—J. C. ROULEAU, INSPECTOR.

May	1	Evaporated Milk	60871	P. J. Girard, Richmond East, 3 box's.	30		Hudson Helbert & Co., Montreal.	Gazelle Brand.	26.00	7.00	19.00	60871	Meets to Standard.
"	1	"	60872	MacRea Bros., Richmond East, 3 "	36		Borden's Condensed Milk Co., Tillsonburg.	Pearless Brand.	26.62	7.20	19.42	60872	"
"	6	"	60873	W. D. Bradford, Granby, 3 "	36		"	St. Charles "	26.45	7.20	19.25	60873	"
"	6	"	60874	Montey Feres, Granby, 3 "	39		"	"	27.35	7.20	20.15	60874	"
"	7	"	60876	Henry Chamberlain, Magog, 3 "	45		Borden's	"	25.70	7.20	18.50	60876	"

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" 8	"	60877	C. Pagento & Co., Hyacinthe.	St. 3 "	39	"	"	24 75	7 18	17 57	60877	Nearly up to stan- dard.
" 8	"	60878	La Cie., Bonaparte En- registre, St. Hyacinthe	3 "	40	"	"	25 40	7 16	18 24	60878	"
" 10	"	60879	T. MacRae & Co., Cookshire.	3 "	35	"	"	28 00	7 02	20 38	60879	Meets Standard.
" 24	"	60880	Kings Cash Store, The- ford Mines.	3 "	30	Aylmer Condensed Milk Co.	Canada First Brand.	29 70	8 08	21 02	60880	"

## DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

Mar. 25	Evaporated Milk	62421	J. O. Gaudron, Centre St., Montreal.	7 68 3 tins	15	Borden Milk Co., Ltd.	St. Charles Brand.	25 85	7 55	18 39	62421	Meets standard.
" 25	"	62422	C. Lariviere, 810 Char- levoix, Montreal.	3 "	45	"	Peerless Brand.	26 55	7 39	19 16	62422	"
April 14	"	62423	Wm. Dunn, 396 St. Paul St., Montreal.	3 "	30	"	Jersey "	21 32	7 36	16 96	62423	Meets standards in fats, Solids low.
" 14	"	62424	John Robertson & Sons, 383 St. Catherine St., West, Montreal.	3 "	30	Dominion Cannery Ltd., Hamilton.	Quaker "	26 30	7 00	19 30	62424	Meets Standard.
May 7	"	62425	Eng. Brads, 769 St. Law- rence Blvd.	3 "	30	Borden Milk Co., Ltd.	St. Charles Brand.	26 25	7 35	18 90	62425	"
" 7	"	62426	" " " "	3 "	15	Dominion Cannery Ltd., Hamilton.	Quaker Brand.	25 34	6 81	18 53	62426	Below standard in solids and fat.
" 7	"	62427	R. L. Watkins, 789 St. Law- rence Blvd., Mon- treal.	3 "	15	Borden Milk Co., Ltd.	St. Charles Brand.	26 00	7 45	18 55	62427	Meets standard.
" 7	"	62428	Geo. Neil, 972 St. Law- rence Blvd., Montreal.	3 "	30	"	Peerless Brand.	25 87	6 80	19 07	62428	Below Standard in solids and fat.
" 7	"	62429	" " " "	3 "	15	"	St. Charles Brand.	28 95	7 85	21 10	62429	Meets standard.
" 7	"	62430	L. Shara, 571 St. Law- rence Blvd., Montreal	3 "	30	J. Malcolm & Son, St. George, Ont.	St. George's Brand.	25 90	6 42	19 48	62430	Below standard in fat.

## DISTRICT OF VALLEYFIELD—J. J. COSTIGAN, ACTING INSPECTOR.

Mar. 16	Evaporated Milk	62711	Borden Milk Co., Ltd., Huntington, P.Q.	3 tins.	30	Vendors.	St. Charles Brand.	29 55	9 38	20 17	62711	Meets standard.
" 16	"	62712	" " " "	3 "	30	"	Jersey "	30 00	9 16	20 84	62712	"
" 16	"	62713	James Brown, Hunting- don, P.Q.	3 "	30	Dominion Cannery Ltd.	Quaker "	26 50	6 75	19 85	62713	Below standard in fat.

## BULLETIN No. 305—EVAPORATED MILK.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an Expression of opinion.)	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
			Name and Address of Vendor.		Quantities.	Cents.	Manufacturer.	Furnisher.		Total Solid	Fat.	Non-fat Solids.	

DISTRICT OF VALLEYFIELD, J. J. COSTIGAN, ACTING INSPECTOR—*Concluded.*

1914.										p. c.	p. c.	p. c.	
Mar. 18	Evaporated Milk.	62714	A. Pôisy, P.Q.	St. Johns, 3 tins.	45				Peerless Brand.	24.60	7.02	17.58	62714 Below standard in solids and fat, slightly.
" 18	"	62715	M. A. Contois, P.Q.	St. 3 "	30				St. Charles "	25.65	7.45	19.20	62715 Meets standard.
Apr. 13	"	62716	R. Bonsey, P.Q.	St. Lambert, 3 "	30				Primus "	25.76	6.58	19.18	62716 Below standard in solids and fat.
" 13	"	62717	P. Z. St. Marie, P.Q.	Lon. 3 "	38				St. Charles "	28.10	6.55	21.55	62717 Below standard in fat.
" 16	"	62718	Dion Co., P.Q.	grosil, P.Q.	36				Peerless "	27.15	8.12	19.03	62718 Meets standard.
" 16	"	62719	E. Rougie, P.Q.	field, P.Q.	38				Primus "	25.03	6.20	18.83	62719 Below standard in solids and fat.

## DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

Mar. 17	Evaporated Milk.	63307	Fawkes & Co., wall.	Corn. 3 tins.	45				Mfrs. ....	25.15	6.27	18.88	63307 Below standard in solids and fat.
" 13	"	63311	Fred A. Davis, Qyon..	3 "	39				Provost & Al. St. Charles "	25.40	7.10	18.30	63311 Nearly up to standard.

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Mch. 17	Evaporated Milk.	63312	W. H. Gardiner, Corn-wal.	3 tins.	15	Dominion Canners, Ltd., Hamilton.	Mathewsons, Sons, Montreal.	Quaker Brand.	26 00	7 28	18 72	63312	Meets standard.
"	"	63313	A. E. Rea Co., Ltd., Ottawa.	3 "	45	Borden Condensed Milk Co., New York.	Lerner & Son, Ottawa.	Peerless "	24 27	6 23	18 04	63313	Below standard in solids and fat.
"	"	63314	S. J. Major, Ltd., Ottawa.	3 "	25	Aylmer Condensed Milk Co., Aylmer, Ont.	Mrs. ....	Canada First Brand.	25 60	7 45	18 15	63314	Meets standard.
"	Evaporated Cream.	63315	P. Lamoureux & Cie., Dalhousie, St., Ottawa.	3 "	45	St. Charles Condensing Co., Ingersoll.	Provost & Alard, Ottawa.	St. Charles " (Is rich milk reduced to consistency of cream.)	25 10	7 75	17 35	63315	"
"	Evaporated Milk.	63316	Wall & Co., Byward Market, Ottawa.	3 "	30	J. Malcolm & Son, St. George, Ont.	Mrs. ....	St. George Brand	26 70	7 43	19 27	63316	"
"	"	63317	The F. J. Castle, Ltd., Ottawa.	3 "	25	The Turo Condensed Milk Co., Turo, N.S.	"	Jersey "	26 14	7 44	18 70	63317	"
"	"	63319	Wm. Farmer, St., Ottawa.	3 "	45	St. Charles Condensing Co., Ingersoll.	H. N. Bate & Son, Ottawa.	St. Charles "	26 65	6 95	19 70	63319	"
"	"	63341	Alex. Duncan, St., Ottawa.	3 "	15	The Borden Milk Co., Ltd., Montreal.	Unknown	Peerless "	25 10	5 71	19 39	63341	Below standard in solids and fat.

## DISTRICT OF KINGSTON—JAMES HOGAN, INSPECTOR.

Mch. 12	Evaporated Milk.	60067	H. M. Stover, Kingston	3 tins.	30	Borden.....	Peerless Brand..	26 42	7 72	18 70	60067	Meets standard.
" 12	"	60068	W. J. Arnial, Kingston	3 "	30	.....	St. Charles "	27 10	7 05	20 05	60068	"
" 13	"	60069	J. Cullen, Kingston...	3 "	45	Aylmer Condensed Milk Co., Hamilton.	Canada First Brand.	26 50	7 20	19 30	60069	"
" 12	"	60070	D. J. Redmond, Kings- ton.	3 "	15	Borden.....	Peerless "	26 30	7 38	18 92	60070	"
" 13	"	60071	R. W. Marshall. Kings- ton.	3 "	30	.....	" "	27 72	7 28	20 44	60071	"
" 13	"	60072	J. Gordon, Kingston...	3 "	30	.....	St. Charles "	26 20	7 33	18 87	60072	"
" 13	"	60073	J. Crawford, Kingston.	3 "	30	.....	" "	27 50	8 02	19 48	60073	"
" 13	"	60074	J. Reddin & Co., Kings- ton.	3 "	45	Borden.....	Peerless "	25 90	7 05	18 85	60074	"

## BULLETIN No. 305—EVAPORATED MILK.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Samples.	Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Total Solids.	Fat.	Non-Fat Solids.			
DISTRICT OF KINGSTON—Concluded.														
1914.									p.c.	p.c.	p.c.			
Mar. 16	Evaporated Milk.	60075	Wallbridge & Clarke, 3 tins Belleville.	30				St. Charles Brand	26.45	7.03	19.42	60075	Meets Standard.	
" 16	"	60076	W. H. Lanning, Belleville.	30				" "	26.90	7.43	19.47	60076	"	
DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.														
Mch. 19	Evaporated Milk.	62117	T. H. Dodds, 286 Dupont St., Toronto.	3 cans	15	Borden Milk Co., Ltd., Montreal.		Peerless Brand.	27.42	7.52	19.90	62117	Meets standard.	
" 19	"	62118	W. J. Fawcett, 1026 Bathurst St., Toronto.	3 "	15	" "		St. Charles "	29.80	8.00	21.80	62118	"	
" 20	"	62119	C. W. Flintoff, 1406 Queen St. West, Toronto.	3 "	30	Aylmer Condensed Milk Co., Ltd., Hamilton.		Canada First Brand.	25.75	6.75	19.00	62119	Below standard in solids and fat.	
" 20	"	62120	T. W. Squire, 229 Church St., Toronto.	3 "	30	" "		Reinder " Enriched by Evaporation to the Consistence of Cream.	25.90	7.30	18.60	62120	Meets standard.	
" 21	"	62121	The Robt. Simpson Co., Ltd., cor. Queen and Young Sts., Toronto.	3 "	30	J. Malcolm & Son, St. George, Ont.		St. George Brand.	25.58	6.82	18.76	62121	Below standard in solids and fat.	
" 24	"	62122	D. Kehoe, 1978 Dundas St., Toronto.	3 "	15	Aylmer Condensed Milk Co., Ltd., Hamilton.		Canada First Brand.	27.30	6.76	20.54	62122	Meets standard.	
April 2	"	62123	T. P. Loblaw, 891 Queen St., East, Toronto.	3 "	15	Borden Milk Co., Ltd., Montreal.		St. Charles "	26.00	7.27	18.73	62123	"	
" 3	"	62124	J. Ross, 632 Young St., Toronto.	3 "	30	" "		Peerless "	27.00	6.98	20.02	62124	"	

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"	7	62125	D. M. Cooper, 239 Wel-	"	15	Aylmer Condensed Milk Co., Ltd., Hamilton.	.....	Canada First Brand.	24-10	6-20	17-96	62125	Below standard in solids and fat.
"	7	62126	A. Brown, 198 Carlton St., Toronto.	"	15	Borden Milk Co., Ltd., Montreal.	.....	Peerless "	28-90	7-25	21-65	62126	Meet standard.

## DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.

April 15	Evaporated Milk.	63211	G. S. Winter Son & Co., 139 Colborne st., Brantford.	3 cans	30	John Malcolm & Son, St. George.	.....	St. George Brand	24-55	6-80	17-75	63211	Below standard in solids and fat.
"	15	63212	J. T. Wallace, 297 Colborne st., Brantford.	"	15	Borden Milk Co., Ltd., Montreal.	.....	St. Charles "	25-88	7-13	18-75	63212	Meets standard.
"	23	63213	Wilson & Swayze, Welland.	"	45	Borden Condensed Milk Co., New York.	.....	Peerless "	25-32	7-15	18-17	63213	Below standard in solids and fat.
"	23	63214	J. S. O'Neal, Welland.	"	15	Aylmer Condensed Milk Co., Ltd., Hamilton.	.....	Canada First "	26-06	7-15	18-91	63214	Meets standard.
"	24	63215	Lawrence & Co., 204 St. Paul st., St. Catharines.	"	15	Borden Milk Ltd., Montreal.	.....	St. Charles "	26-18	7-45	18-73	63215	"
"	24	63216	C. M. Gibson, 303 St. Paul st., St. Catharines.	"	30	J. Malcolm & Son, St. George, Ont.	.....	St. George "	24-62	6-95	17-17	63216	Below standard in solids and fat.
"	30	63217	L. J. Hill, 367 Barton st., east, Hamilton.	"	15	Borden Milk Co., Ltd., Montreal.	.....	Peerless "	28-60	7-25	21-35	63217	Meets standard.
"	30	63218	Post & Stewart, 591 Barton st., east, Hamilton.	"	15	Aylmer Condensed Milk Co., Ltd., Hamilton.	.....	Canada First "	25-72	7-15	18-57	63218	"
"	30	63219	Chas. Smith, 661 Barton st., east, Hamilton.	"	15	"	.....	" "	27-05	7-96	19-09	63219	"
"	30	63220	F. G. Morris, 731 Barton st., east, Hamilton.	"	15	Borden Milk Co., Ltd., Montreal.	.....	Peerless "	25-50	7-32	18-18	63220	"

## DISTRICT OF WINDSOR—J. NO. TALBOT, INSPECTOR.

Mar.	9	Evaporated Milk.	53620	McLeod & McBain, Ingersoll.	3 tins.	30	Borden Milk Co., Montreal.	.....	St. Charles Brand	24-90	7-12	17-78	53620	Nearly up to standard.
"	9	"	53621	S. M. Fleet, Ingersoll.	"	45	"	.....	"	26-80	8-13	18-67	53621	Meets standard.
"	10	"	53626	R. M. Teall, Ingersoll.	"	30	"	.....	Peerless "	27-55	7-58	19-97	53626	"
"	11	"	53629	J. A. Treustin, Ingersoll.	"	30	"	.....	"	27-10	7-20	19-90	53629	"
"	11	"	53633	G. O. Worret, Simcoe.	"	30	John Malcolm & Son, St. George, Ont.	.....	St. George "	25-07	6-73	18-34	53633	Below standard in solids and fat.
"	12	"	53638	H. L. Charlton, Aylmer, Ont.	"	15	Aylmer Condensed Milk Co., Aylmer, Ont.	.....	Canada First "	25-90	7-88	18-02	53638	Meets standard.

BULLETIN No. 305—EVAPORATED MILK.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion.	Results of Analysis.			Remarks and Opinion of Chief Analyst.
						Total Solids.	Pat.	Non-fat Solids.	No. of Sample.

DISTRICT OF WINDSOR—Concluded.

1914.			30 tins.	30	Aylmer Milk Co., Ont.	Canada	First	p.e.	p.e.	p.e.	Meets Standard.
								25.72	7.30	18.42	
Mar. 12	Evaporated Milk.	H. L. Stratton, Aylmer, Ont.	3 tins.	30	Aylmer Milk Co., Ont.	"	"	25.72	7.30	18.42	53640 Meets Standard.
"	"	Young & Caven, Aylmer, Ont.	"	30	"	"	"	25.30	7.50	17.80	53642 "
"	"	J. A. Gallett, Aylmer, Ont.	"	45	"	"	"	26.42	7.38	19.04	53643 "
"	"	Moylan & Moylan, St. Thomas.	"	15	Borden Milk Co., Montreal.	"	St. Charles	25.90	7.34	18.56	53644 "
"	"	Butler Bros., St. Thomas	"	45	"	"	"	25.75	6.95	18.80	53645 Nearly up to standard.

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

Mar. 11	Evaporated Milk.	61111 A. Douglas, Isabel st., Winnipeg.	30	Borden Milk Co., Ltd., Montreal.	St. Charles Brand	26.36	7.15	19.15	61111 Meets standard.
" 11	"	61112 " " " 3 "	38	Aylmer Condensed Milk Co., Ltd., Hamilton, Ont.	Canada First Brand.	27.50	8.02	19.48	61112 "
" 11	"	61113 Hudson Bay Co., Winnipeg.	30	Borden Milk Co., Ltd., Montreal.	St. Charles Brand	28.80	7.68	21.19	61113 "
" 12	"	61114 Laurie Bros., Corydon ave., Winnipeg.	30	J. Malcolm & Son, St. George, Ont.	St. George Brand	25.10	6.51	18.59	61114 Below standard in solids and fat.
" 12	"	61115 R. J. Lane & Co., Corydon ave., Winnipeg.	30	"	"	27.80	7.52	20.28	61115 Meets standard.
" 16	"	61116 McBeal's Grocery, Nassau st., Winnipeg.	38	Borden Milk Co., Ltd., Montreal.	St. Charles	25.00	7.39	18.61	61116 "



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" 16	" ..	61117	The T. Brown Co., Pembina st., Winnipeg.	30	J. Malcolm & Son, St. George, Ont.	"	25-60	6-90	18-70	61117	Nearly up to standard.
" 16	" ..	61118	" "	45	Aylmer Condensed Milk Co., Hamilton	"	26-25	7-80	18-45	61118	Meets standard.
" 17	" ..	61119	J. Paterson, Main st., N., Winnipeg.	30	J. Malcolm & Son, St. George, Ont.	"	26-29	7-32	18-97	61119	"
" 17	" ..	61120	" "	38	Aylmer Condensed Milk Co., Hamilton	"	27-40	7-71	19-69	61120	"

## DISTRICT OF SASKATCHEWAN—JNO. O. SCOTT, INSPECTOR.

Mar. 26	Evaporated Milk.	63701	V. Putz, Regina .....	30	Borden Milk Co., Ltd., Montreal.	"	24-95	7-05	17-90	63701	Nearly up to standard.
" 28	" ..	63706	J. R. Kelly, Moose Jaw	30	Aylmer Condensed Milk Co., Aylmer, Ont.	"	28-50	8-75	19-75	63706	Meets standard.
" 28	" ..	63708	E. F. Cassidy, Moose Jaw.	30	J. Malcolm & Son, St. George, Ont.	"	25-25	6-18	19-07	63708	Below standard in solids and fat.
" 30	" ..	63710	Biggs Bros., Regina	40	Borden Milk Co., Montreal.	"	26-00	7-18	18-82	63710	Meets standard.
" 30	" ..	63714	Crown Grocery, Regina	45	Aylmer Condensed Milk Co., Hamilton, Ont.	"	25-70	7-35	18-35	63714	"
April 1	" ..	63731	C. W. Sherwood, Regina	30	Jno. Malcolm & Son, St. George, Ont.	"	25-13	6-35	18-78	63731	Below standard in solids and fat.
" 1	" ..	63732	Rex Grocery, Regina	40	Aylmer Condensed Milk Co., Hamilton, Ont.	"	25-15	6-37	18-78	63732	"
" 1	" ..	63733	Donald Evans, Regina	25	"	"	27-25	7-20	20-05	63733	Meets standard.
" 1	" ..	63736	Crown Grocery, Regina	25	Borden Condensed Milk Co., Montreal	"	26-29	7-10	19-19	63736	"

## DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.

Mar. 18	Evaporated Milk.	51927	Sprague & Williams, Medicine Hat.	40	Dominion Canamers, Hamilton.	"	25-58	7-08	18-50	51927	Nearly up to standard.
" 18	" ..	51928	Taylor Bros., Medicine Hat.	40	Borden Milk Co., Montreal.	"	26-10	7-05	19-05	51928	Meets standard.
" 18	" ..	51929	Spencer & Todd, Medicine Hat.	40	"	"	26-30	7-87	18-43	51929	"
" 19	" ..	51930	H. A. McKillop & Co., Lethbridge.	40	"	"	26-10	7-50	18-60	51930	"

## BULLETIN No. 305—EVAPORATED MILK.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Quantity.		Cents.		Manufacturer.	Furnisher.		Total Solids.	Pat.	Non-Fat Solids.		

## DISTRICT OF ALBERTA—Continued.

1914.														
Mar. 19	Evaporated Milk.	51931	Hudson Bay Co., Lethbridge.	3 tins.	35	Borden Milk Co., Montreal.			St. Charles .....	26.35	7.66	18.69	51931	Meets Standard.
" 19	" "	51932	Bentley Co., Ltd., Lethbridge.	3 " "	38	" "			" .....	26.45	7.13	19.32	51932	" "
" 21	" "	51933	Campbell, Wilson & Horne, Calgary.	3 " "	30	Aylmer Condensed Milk Co., Aylmer, Ont.			Canada First .....	26.50	8.10	18.40	51933	" "
" 21	" "	51934	George J. Wood, Calgary.	3 " "	45	Borden Milk Co., Montreal.			St. Charles Brand .....	25.20	6.80	18.40	51934	Below standard in solids and fat.
" 23	" "	51935	H. H. Cooper & Co., Edmonton.	3 " "	28	Aylmer Condensed Milk Co., Aylmer, Ont.			Canada First .....	28.05	8.76	19.29	51935	Meets standard.
" 23	" "	51936	J. H. Morris & Co., Edmonton.	3 " "	38	B.C. Condensed Milk Co., Chilliwack, B.C.			B.C. Brand .....	22.72	6.46	16.26	51936	Below standard in solids and fat.

## DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

Feb. 17	Evaporated Milk.	50076	L. C. Masson, Revelstoke, B.C.	3 tins.	40	Borden Milk Co., Montreal.			St. Charles Brand .....	26.06	7.33	18.67	50076	Meets standard.
" 17	" "	50077	" " "	3 " "	50	B.C. Milk Condensing Co., New Westminster, B.C.			Jersey Brand .....	25.92	7.03	18.89	50077	" "
" 17	" "	50078	" " "	3 " "	40	" "			B.C. " .....	24.64	6.78	17.86	50078	Below standard in solids and fat.
Apr. 13	" "	50088	W. J. Woods, Enderby, B.C.	3 " "	40	Borden Milk Co., Montreal.			St. Charles Brand .....	27.25	7.90	19.35	50088	Meets standard

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April 13	"	50690	Enderby Supply Co., 3 "	40	B.C. Milk Condensing Co., New Westminster, B.C.	B.C. Brand	21 59	7 00	14 39	50690	Below standard in solids and fat.
May 2	"	61604	Star Grocery, Nelson, B.C.	20	Aylmer Condensed Milk Co., Hamilton.	Canada First	26 20	7 30	18 90	61604	Meets standard.
" 2	"	61605	" " " "	30	Pacific Chocolate Co., New Westminster, B.C.	Utility Brand, Skimmed.	22 86	0 23	22 63	61605	Sold as skimmed milk.
" 12	"	61613	Hosmer Industrial Association, Hosmer, B.C.	30	Aylmer Condensed Milk Co., Hamilton, Ont.	Canada First	28 80	7 08	21 12	61613	Meets standard.
" 12	"	61616	Bohemian & Russian Stores, Hosmer, B.C.	35	" " "	"	26 05	7 50	18 55	61616	"
" 12	"	61617	" " "	40	Borden Milk Co., Montreal.	St. Charles Brand.	27 40	8 04	19 36	61617	"
Apr. 1	"	50685	Jeff Davis & Co., Grand Forks, B.C.	45	Pacific Chocolate Co., Ltd., New Westminster, B.C.	Utility Brand	23 48	0 40	23 08	50685	Sold as skimmed milk.

## DISTRICT OF VANCOUVER—E. J. MORGAN, INSPECTOR.

Mch. 31	Evaporated Milk.	54987	Jos. McTaggart & Sons, 3 tins, 794 Granville St., Vancouver, B.C.	30	B.C. Milk Condensed Ltd., New Westminster, B.C.	B.C. Brand	22 61	6 81	15 81	54987	Below standard in solids and fat.
" 31	"	54988	T. F. McDowell, 938 Granville St., Vancouver, B.C.	15	Aylmer Condensed Milk Co., Aylmer, Ont.	Canada First Brand.	26 40	7 54	19 86	54988	Meets standard.
" 31	"	54989	London Grocery Co., Ltd., 1048 Granville St., Vancouver, B.C.	15	Pacific Coast Condensed Milk Co., Seattle, Washington, U.S.A.	Carnation "	25 80	7 28	18 52	54989	"
" 31	"	54990	" " "	40	Borden Condensed Milk Co., Tillsonburg, Ont.	Peerless "	24 10	6 42	17 68	54990	Below standard in solids and fat.
" 31	"	54991	Filion Ltd., 204 Carrall St., Vancouver, B.C.	15	Borden Milk Co., Ltd., Montreal.	St. Charles "	26 20	7 25	18 95	54991	Meets standard.
April 21	"	54992	Ammande Supply Co., Columbia St., New Westminster, B.C.	40	" " "	Jersey "	26 10	7 36	18 74	54992	"
" 22	"	54993	David Spencer Ltd., Vancouver, B.C.	40	Dominion Canneries, Ltd., Hamilton.	Quaker "	26 74	7 08	19 66	54993	"
" 22	"	54994	" " "	40	J. Malcolm & Son, St. George, Ont.	St. George "	23 70	6 48	17 22	54994	Below standard in solids and fat.

BULLETIN No. 305—EVAPORATED MILK.

Date of Collection.	Nature of Sample.	No. of Sample.	Nature and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Total Solids.	Fat	Non-Fat Solids.		

DISTRICT OF VANCOUVER—Concluded.

1914.									p. c.	p. c.	p. c.		
April 22	Evaporated Milk.	54995	David Spencer, Ltd., Vancouver, B.C.	3 tins.	30	B.C. Milk Condensed Co., Ltd., New Westminster, B.C.		Spencers Perfect Brand.	21.92	6.21	15.71	54995	Below standard in solids and fat.
" 28	" "	54996	S. Larsen, 214 1/2 Hastings St., East, Vancouver, B.C.	" "	15	Borden Milk Co., Ltd., Montreal.		St. Charles "	25.85	7.81	18.04	54996	Meets standard.

DISTRICT OF VICTORIA—D. OSULLIVAN, INSPECTOR.

Mch. 12	Evaporated Milk.	57773	F. E. Plummer, 1118 3 tins. Quadra St., Victoria, B.C.	40	Borden Milk Co., Ltd., Montreal.		St. Charles Brand.		28.10	9.07	19.03	57773	Meets standard.
" 12	" "	57774	" " " "	" "	30	J. Malcolm & Son, St. George, Ont.		St. George "	23.60	5.94	17.66	57774	Below standard in solids and fat.
" 12	" "	57777	C. F. Wood, 971 Yates St., Victoria, B.C.	" "	30	B.C. Condensed Milk Co., Ltd., Chilliwack, B.C.		B.C. "	22.15	6.81	15.34	57777	" "
" 12	" "	57779	James Adam, 1023 Cook St., Victoria, B.C.	" "	30	Aylmer Condensed Milk Co., Ltd.		Canada First Brand.	26.55	7.92	18.63	57779	Meets standard.
" 12	" "	57780	" " " "	" "	45	Pacific Coast Condensed Milk Co., Seattle, Washington, U.S.A.		Carnation "	25.80	7.15	18.65	57780	" "
" 13	" "	57782	Acton Bros., 1317 Douglass St., Victoria, B.C.	" "	45	Borden Milk Co., Ltd., Montreal.		Jersey "	25.90	7.10	18.80	57782	" "



## APPENDIX U.

## BULLETIN No. 306—PEROXIDE OF HYDROGEN.

OTTAWA, Feb. 27, 1915.

J. U. VINCENT, Esq.,  
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report of work done upon thirty-seven (37) samples of what is generally called Peroxide of Hydrogen. The article in question is really a solution of the per oxide ( $H_2O_2$ ) and is known in the British Pharmacopoeia as *Liquor Hydrogenii Peroxidi*, and in the United States Pharmacopoeia as *Aqua Hydrogenii Dioxidii*.

These solutions are practically identical, and are required to contain about three per cent (3 per cent) of true Hydrogen Peroxide, corresponding to an available Oxygen content of about ten volumes.

The British Pharmacopoeia permits a marginal allowance of one per cent available oxygen in either direction, so that the article meets pharmacopoeal requirements when its available oxygen content lies between nine and eleven volumes (9–11).

It will be noted that most of the samples examined give results that fall within the specified limits; whilst those which indicate a slightly higher strength cannot be held to be in any sense objectionable for the purposes to which peroxide of hydrogen is usually applied (as an antiseptic wash, a hair bleach, or as a gargle.) Only one sample falls below legal strength, a fact which indicates care in preparation by the manufacturer, and in storage by the dispenser, since this article is very prone to decomposition and loss of strength.

It is usual to add a trace of phosphoric acid or of acetanilide, in order to give better keeping properties to the solution. Acetanilide is added in the proportion of 3/16 grain per ounce of solution; and is declared on the label when present.

Since this solution is a pharmacopoeal preparation, it is of course impossible that it should be made proprietary. Two samples (63561 and 63583) are named as Dioxogen on the label. Except that these samples contain a slightly higher percentage of available

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oxygen than the maximum fixed by the pharmacopoeias, they are identical with the official peroxide. I think it open to question whether a name, not known to the pharmacopoeia, should be permitted use in this preparation, which, to all intents and purposes, is a pharmacopoeal article. Statements made in a pamphlet which accompanies each bottle, are misleading, and are not borne out by the facts. "There is nothing else, the same as dioxogen," is very questionable, and, indeed, is not true. Even if it be granted that its slightly higher content of oxygen, than that permitted for the pharmacopoeal peroxide, constitutes a point of difference, this entirely disappears in the use of the article, which is always diluted with water.

I beg to recommend publication of this report as Bulletin No. 306.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

## BULLETIN No. 306—HYDROGEN PEROXIDE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and opinion of the Chief Analyst.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		One volume yields oxygen by P. test.	Test for Barium.	Residue on Evaporation.			
DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.														
1914.														
Nov. 10	Hydrogen Peroxide.	60749	Jos. Masson, 808 rue St. Valier, Quebec.	3 bot.	60		National Drug Co. . . . .	.....	9.75	Negative	0.17	60749	Meets legal standard.	
" 10	"	60750	G. B. Giroux, 387 rue St. Joseph, Quebec.	3 "	75		Henry K. Wampole Co. . . . .	.....	10.05	"	0.19	60750	"	
" 10	"	60751	W. Brunette & Cie, 139 rue St. Joseph, Quebec.	3 "	60		" "							

## DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

Nov. 23	Hydrogen Peroxide.	62560	Moe Freedman, 1068 St. Lawrence Blvd., Montreal.	3 bot.	75	National Drug and Chemical Co.	.....	9.65	Negative	0.09	62560	Meets legal standard.
" 23	"	62561	Lancet & Bault, 820 St. Lawrence Blvd., Montreal.	3 "	45	Mallenderd Chem. Works, New York	.....	11.1	"	0.13	62561	"
" 23	"	62562	A. F. Larose, 2 Sherbrooke St., E. Montreal.	3 "	30	Lynman's Ltd., Montreal.	.....	9.83	"	0.10	62562	"
" 24	"	62563	W. Leslard, 1400 Wellington St., Verdun.	3 "	75	Dr. King Medicine Co., Toronto.	.....	10.05	"	0.17	62563	"
" 24	"	62564	Dr. V. Rheume, 183 Church Ave., Verdun.	2 "	75	Parke Davis Co., Walkerville, Ont.	.....	11.0	"	0.07	62564	"



## SESSIONAL PAPER No. 14

## DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

Oct. 24	Hydrogen Peroxide.	63556	Chas. A. Adams, Kemptonville.	3 bot.	75	United Drug Co., Toronto.	.....	.....	10-45	Negative	0-13	63556	Meets legal stand-ard.
Nov. 4	"	63557	The Ottawa National Pharmacy Ltd., Ottawa.	3 "	75	Wampole Ltd., Perth Ont.	.....	.....	11-55	"	0-12	63557	Slightly above legal strength.
"	"	63558	E. J. Durocher, Ottawa.	3 "	75	Lyman's Ltd., Montreal.	.....	.....	10-3	"	0-07	63558	Meets legal stand-ard.
"	"	63559	" " "	3 "	75	National Drug Co., Ottawa.	.....	.....	13-7	"	0-06	63559	Above legal strength.
"	"	63560	J. A. Musgrove, Ottawa.	3 "	75	N. Y. & London Drug Co., N. York.	.....	.....	12-3	"	0-08	63560	"
"	"	63561	N. W. Campbell, Ottawa.	3 "	75	Oakland Chemical Co., New York.	.....	Labelled Wood Di-Oxygen. The Per. P. M. Act 2964, H <sub>2</sub> O <sub>2</sub> 12 V.	14-4	"	0-03	63561	"
* Mar. 1	"	63563	T. T. Beattie, Ottawa.	3 "	75	" " "	.....	The P. or. P. M. Act 2964 Di-Oxygen H <sub>2</sub> O <sub>2</sub> 12 V.	14-1	"	0-09	63563	"

## DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Nov. 16	Hydrogen Peroxide	63154	Jury & Gregory, Col-lingwood tang.	3 bot.	75	United Drug Co., Toronto.	.....	.....	10-7	Negative	0-18	63154	Meets legal stand-ard.
" 18	"	63155	P. A. McDonald, Pen-sing.	3 "	45	St. Regis Chem. Co., Toronto.	.....	Nat. Drug and Full strength...	10-7	"	0-15	63155	"
" 19	"	63156	J. S. Fraleigh, Midland	3 "	75	.....	.....	Drug Trading Co., Toronto.	11-2	"	0-17	63156	"
" 19	"	63157	H. Cooke & Co., Orillia.	3 "	75	H. K. Wampole, Perth, Ont.	.....	.....	10-60	"	0-22	63157	"
" 25	"	63163	Owl Drug Stores, Ltd., 282 College St., Toronto.	3 "	40	Nat. Drug and Chem. Co., of Canada.	.....	.....	10-60	"	0-09	63163	"

## DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.

Nov. 2	Hydrogen Peroxide.	64552	C. V. Jeffers, Orangeville.	3 bots.	75	.....	.....	F. Stearns & Co., Windsor.	11-2	Negative.	0-15	64552	Meets legal stand-ard.
" 2	"	64553	J. D. Campbell, 917 2nd ave., E., Owen Sound	2 "	45	.....	.....	Sovereign Perfumers, Ltd., Toronto.	6-7	"	0-49	64553	Below legal strength.
" 5	"	64554	J. Ball, Hanover	3 "	75	Lyman's Ltd., Montreal.	.....	.....	10-0	"	0-20	64554	Meets legal stand-ard.
" 6	"	64555	A. P. Sieveright, Warkenton.	3 "	75	H. K. Wampole, Perth.	.....	.....	10-9	"	0-16	64555	"
" 9	"	64556	Parke & Parke, Market Square, Hamilton.	3 "	45	Mallinorft Chem. Works, St. Louis.	.....	.....	10-75	"	0-18	64556	"

## BULLETIN No. 306.—HYDROGEN PEROXIDE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		One volume yields oxygen by P. test.	Test for barium.	Residue on evaporation.			
DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR														
1914.														
Oct. 30	Hydrogen Peroxide.	53296	J. K. Hill, druggist, Portage la Prairie.	12 oza.	75	Parke, Davis Co., Walkerville, Ont.	.....	.....	10.7	Negative.	0.02	53296	Meets legal standard.	
Nov. 3	"	53297	Clements Drug Store, Brandon.	12 "	75	Mallinckrodt Chem. Works, New York.	.....	.....	10.8	"	0.12	53297	"	
" 3	"	53298	McCullough Drug Store, Brandon.	12 "	75	Parke, Davis Co., Walkerville, Ont.	.....	.....	9.9	"	0.08	53298	"	
" 4	"	53299	Robertson & Co., druggists, Brandon.	12 "	75	E. G. West & Co., Toronto.	.....	.....	10.9	"	0.12	53299	"	
" 10	"	53300	F. W. Humphries, Druggist, Carman.	3 pgs.	75	Nat. Drug and Chem. Co.	.....	.....	9.8	"	0.09	53300	"	
DISTRICT OF VANCOUVER—E. J. MORGAN, INSPECTOR.														
Oct. 31	Hydrogen Peroxide.	55136	Wm. Harrison & Co., Ltd., Granville st., and 7th Ave., Vancouver.	3 bots.	75	The Arthur Chem. Co., New Haven, Conn.	.....	.....	11.15	Negative.	0.10	55136	Slightly above legal strength.	
" 31	"	55137	C. H. McFarlane, Eburne, B.C.	3 "	75	National Drug and Chem. Co., Montreal.	.....	.....	10.90	"	0.11	55137	Meets legal standard.	
Nov. 2	"	55138	F. W. Woolworth Co., Ltd., 609 Hastings st., Vancouver.	3 "	45	Middletown Chem. Co., Brooklyn, N. Y.	.....	.....	10.75	"	0.15	55138	"	
" 2	"	55139	F. W. Woolworth Co., Ltd., 339 Hastings st., Vancouver.	3 "	45	National Peroxide Co., New York.	.....	.....	11.1	"	0.20	55139	"	
" 3	"	55140	F. T. Hill, 628 Columbia st., New Westminster.	3 "	75	Mallinckrodt Chem. Works, New York.	.....	.....	11.1	"	0.14	55140	"	

SESSIONAL PAPER No. 14

## APPENDIX W.

## BULLETIN No. 307—UNFERMENTED GRAPE JUICE.

OTTAWA, March 11, 1915.

J. U. VINCENT, Esq.,

Deputy Minister, Inland Revenue,

SIR,—I beg to hand you a report dealing with one hundred and eleven samples (111) of Unfermented Grape Juice as sold in Canada. These samples were purchased by our inspectors in October, November and December of last year.

Our last systematic inspection of this article was made in 1908, when work upon seventy (70) samples was reported (Bull. 166). Since that time Grape Juice appears to be in larger demand, if one may judge by the number of places in which it is offered for sale,

The present collection represents twenty-one (21) different brands, as below:—

Brand.	Locality, etc.	Number of Samples.
Bass Island. ....	Bass Island Vineyard Co., Sandusky, Ohio. ....	2
E. D. S. ....	E. D. Smith, Winona, Ont. ....	12
Fremont. ....	The Fremont Grape-Juice Co., Fremont, Ohio. ....	4
Glasseo's. ....	Glasseo's Limited, Hamilton and Oakville. ....	2
Imperial. ....	Hagar Bros., Welland, Ont. ....	1
Liggett's. ....	United Drug Co., Toronto, Ont. ....	5
P. Leos. ....	Peter Leos, Collingwood, Ont. ....	1
McLaughlin. ....	J. J. McLaughlin, Limited, Toronto, Ont. ....	2
Noyes. ....	Grape Juice Co., Niagara Falls. ....	1
Pelee Island. ....	Pelee Island Wine and Vineyard Co., Brantford and Pelee Island, Ont. ....	2
Randalls Gold Medal. ....	Randall Grape Juice Co., Jordan, Ont. ....	8
Red Wing. ....	Puritan Food Products, Fredonia, N. Y. ....	7
Royal. ....	Ontario Grape Growing and Wine Mfg. Co., St. Catharines, Ont. ....	1
Royal Purple. ....	J. Hungerford Smith Co., Rochester, N. Y. ....	1
Schuhles. ....	Schuhles Pure Grape Juice, Highlands, N. Y. ....	7
Shirrieffs. ....	Shirrieffs, Toronto, Ont. ....	4
Sterling. ....	T. A. Lytle Co., Toronto, Ont. ....	1
Top. Notch. ....	Armours Co., Ltd., Chicago, Ill. ....	9
Walker. ....	The Grape Products, North East, Pa. ....	3
Walker. ....	Walker Grape Products Co., Erie, Pa. ....	10
Welch. ....	Welch Grape Juice Co., Westfield, N. Y. ....	28
Total. ....		111

Owing to the large amount of work in arrears here, and to the labour involved in making a complete analysis of this article, I have not considered it necessary to make a full examination of every sample; but a sufficient number of samples of each brand has been examined, to form a basis for judgment.

The results show that, for the most part, Unfermented Grape Juice is true to name, and is rendered marketable by sterilization and hermetic sealing. With very few exceptions the alcohol content is below the legal limit of two per cent (2 p. c.) volume; and in many instances, mere negligible traces are found. Exceptions are Nos. 63536, 63931, (Pelee Island) and 63967 (Sterling)

The other legal requirements for grape juice are as follows:—

Specific gravity, between 1.0400 and 1.1240 at 20°C.

Total sugars between 7 and 28 per cent stated as reducing sugars.

Ash between 20 and 55 centigrammes per 100 cubic centimetres; phosphoric (as P<sub>2</sub>O<sub>5</sub>) between 15 and 70 milligrammes per 100cc. With very few exceptions, these limits are met by the samples now reported. The exceptions, which in all cases are small, indicate additions of sugar or water or both to the grape juice.

I beg to recommend publication of this report as Bulletin No. 307.

I have the honour to be, Sir

Your obedient servant,

A. MCGILL,

Chief Analyst.

6 GEORGE V, A. 1916

BULLETIN No. 307—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF NOVA SCOTIA—

1914.								
Dec. 29	Unferment- ed Grape Juice.	54226	National Drug and Chem. Co., Halifax.	3 bots.	0 25	Welch Grape Juice Co., Westfield, N.Y.		Welch....
1915.								
Jan. 12	" ..	54227	S. F. Courtney & Co., Halifax.	3 " ..	0 30	J. Schuhles, Highland, N.Y.	John Tobin & Co., Halifax.	Schuhles..
" 14	" ..	54228	G. C. McDougall, Kentville.	3 " ..	0 60	United Drug Co., Toronto.		Liggett's ..

## DISTRICT OF NEW BRUNSWICK—

1914.								
Nov. 9	Unferment- ed Grape Juice.	59611	National Drug and Chem. Co., St. John.	3 bots.	0 60	J. J. McLaugh- lin, Ltd., To- ronto.		McLaugh- lin's.
" 11	" ..	59612	Canadian Drug Co., Ltd., 70 Prince Wil- liam St., St. John.	3 " ..	1 00	Welch Grape Juice Co., Westfield, N.Y.		Welch....
" 20	" ..	59613	C. H. Burt, 332 Queen St., Fredericton.	3 " ..	0 75	E. D. Smith, Winona.		E. D. S...
" 26	" ..	59614	A. V. Cheechi, Water St., St. Stephen.	3 " ..	0 75	Welch Grape Juice Co., Westfield, N.Y.		Welch....
Dec. 9	" ..	59615	Leger Drug Co., Ltd., Main St., Moncton.	3 " ..	0 60	Randall Grape Juice Co., Jor- dan, Ont.		Randall's.

## DISTRICT OF PRINCE EDWARD ISLAND—

Oct. 24	Unferment- ed Grape Juice.	60156	Beer & Goff, Charlotte- town.	3 pints	1 05	Welch Grape Juice Co., Westfield, N.Y.		Welch....
" 27	" ..	60157	W. W. Walker, Char- lottetown.	3 " ..	0 90	Shirriff, Toronto.		Shirriff's..
" 27	" ..	60158	Johnson & Johnson, Charlottetown.	3 bots.	0 45	Walker Grape Products Co., Eric, Pa.		Walker's..
" 30	" ..	60159	Geo. E. Hughes, Char- lottetown.	3 qts.	2 25	Vendor.....		Randall's.

## SESSIONAL PAPER No. 14

## UNFERMENTED GRAPE JUICE.

Results of Analysis.													No. of Sample.	Remarks and Opinion of the Chief Analyst.
Sp. Gr. of Juice.	Sp. Gr. of Distillate.	Alcohol by Volume.	Sp. Gr. of De-alcoholized Juice.	Extract.		Ash per 100cc.	Acidity as Tartaric per 100cc.	Reducing Sugars per 100cc.	Milligrams Phosphoric Acid per 100cc.	Preservatives.	Dyes.			
				From Sp. Gr. of De-alcoholized Juice.	By drying 24 hours at 100° C.									

R. J. WAUGH, INSPECTOR.

See	Sample	Nos.	60710,	55113,	63545,	2622,	63955,	60156	.....	.....	.....	.....	54226	
"	"	"	64610	.....	.....	.....	.....	.....	.....	.....	.....	.....	54227	
"	"	"	61701	and	63541	...	.....	.....	.....	.....	.....	.....	54228	

J. C. FERGUSON, INSPECTOR.

1·0761	1·000	None.	1·0761	19·76	17·13	0·260	1·22	17·25	21	None.	None.	59611	Genuine.
See	Sample	Nos.	60710,	55113,	63545,	2622,	63955,	60156	.....	.....	.....	59612	
"	"	"	55112,	60709,	64537,	2621	.....	.....	.....	.....	.....	59613	
"	"	No.	59612	..	.....	.....	.....	.....	.....	.....	.....	59614	
"	"	Nos.	60159	and	62013	.....	.....	.....	.....	.....	.....	59615	

WM. WEEKS, INSPECTOR.

1·073	0·9990	0·66	1·083	21·57	15·11	0·230	1·02	18·41	25	None.	None.	60156	Genuine.
See	Sample	No.	215	.....	.....	.....	.....	.....	.....	.....	.....	60157	
"	"	"	61175	.....	.....	.....	.....	.....	.....	.....	.....	60158	
1·061	0·9999	0·07	1·062	16·07	13·74	0·225	0·803	12·89	26	None.	None.	60159	Genuine.

6 GEORGE V, A. 1916

BULLETIN No. 307—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF QUEBEC—

1914.								
Nov.	3	Unferment- ed Grape Juice.	60709 O. Lacroix, 19 Rue St. Joseph, Quebec.	3 bots.	0 90	Louis Frère & Cie, Bordeaux.	H. Turcotte & Cie.	E. D. S..
"	3	"	60710 A. Grenier, 94 Rue St. Jean, Quebec.	3 "	1 05	Welch, West- field, N.Y.	Lyman's, Ltd., Mont- real.	Welch...
"	9	"	60711 Els. Turcotte, 74 Rue Desfos, Quebec.	3 "	0 30	Walker Grape Fruit.	.....	Walker's..
"	9	"	60712 C. Riverin, 55 Rue de la Couronne, Quebec.	3 "	0 60	"	.....	" ..
"	9	"	60713 T. E. Charos, 264½ Rue St. Joseph, Quebec.	3 "	0 30	Howe & McIn- tyre, Montreal.	.....	Welch....

## DISTRICT OF THREE RIVERS—

Oct.	23	Grape Juice.	2620 I. T. Gaudet, Joliette.	3 bot.	1.15	Welch Grape Juice Co., Westfield, N.Y.	.....	Welch..
"	24	"	2621 C. Barette, Joliette	3 "	75	Helderleigh, Winona, Ont.	.....	E. D. S...
"	29	"	2622 Archibald Duff, Char- lemagne.	3 "	1.80	Welch Grape Juice Co., Westfield, N.Y.	.....	Welch....
"	29	"	2647 O. Carignan, Three Rivers.	3 "	60	"	.....	" .....
"	29	"	2685 R. W. Williams, Three Rivers.	3 "	1.05	"	.....	" .....

## DISTRICT OF WEST QUEBEC—

Nov.	2	Grape Juice.	215 St. Agathe Ice Cream Parlor Co., St. Agathe, des Monts.	3 bot.	75	Shirrieffs.....	.....	Shirriff's.
"	2	"	218 F. D. Hall, St. Agathe, des Monts.	3 "	30	Walker's.....	.....	Walker's.

## DISTRICT OF MONTREAL—

Dec.	2	Unferment- ed Grape Juice.	62535 D. Nassapulos, 231 Craig st. w., Montreal	3 bot.	90	Welch Grape Juice Co., Westfield, N.Y.	.....	Welch....
"	2	"	62536 G. Tsipmas, 80 Wind- sor st., Montreal.	3 "	75	J.J. McLaughlin, Ltd., Toronto.	.....	McLaugh- lins.
"	2	"	62537 Jassby's Drug Store, 293 St. Catherine st. w., Montreal.	3 "	1.00	Schubles Grape Juice Co., High- land Ulster Co., N.Y.	.....	Schutles..



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF MONTREAL—

1914.								
Dec.	3	Unfermented Grape Juice.	62538 Ed. Tessier, 982 St. Catherine st., east, Montreal.	3 bot.	75	Randall Grape Juice Co., Jordan, Ont.		Randall's.
"	4	"	62539 J. A. Demetie, 1494 St. Lawrence Boul., Montreal.	3 "	1.00	E. D. Smith, Winona, Ont.		E. D. S...
"	10	"	62540 J. W. Harding, 46 St. Alexander, st., Montreal.	3 "	75	Puritan Food Products Co., Inc., Fredonia, N.Y.		Red Wing
"	11	"	62541 G. Demetie, 590 St. Catherine st. e., Montreal.	3 "	2.75	Armours.		Top Notch
"	14	"	62542 Freeman's Drug Store, 27 St. Catherine st. west, Montreal.	3 "	1.20	Welch Grape Juice Co., Westfield, N.Y.		Welch....
"	14	"	62543 J. H. Goulden, 471 Bleury st., Montreal.	3 "	1.00	Schuhles Pure Grape Juice Co., Highland, Ulster Co., N.Y.		Schuhle's.
"	14	"	62544 F. J. Payette, 385 Bleury st., Montreal.	3 "	45	E. D. Smith....		E. D. S...

## DISTRICT OF VALLEYFIELD AND ST. HYACINTHE—

Nov.	11	Grape Juice.	63016 The Daly Grocery Co., Stanstead,	3 bot.	1.05	Schuhles P.G.J. Co., Highland, N.Y.		Schuhle's.
"	17	"	62836 F. W. Warwick, Grocer, Buckingham.	3 "	75	Welch Grape Juice Co., Westfield, N.Y.		Welch....
"	18	"	62837 W. R. Simpson, Grocer, St. Johns.	3 "	90	Puritan Food Products Co., Inc.		Red Wing
"	23	"	63017 G. Brosseau Girouard, St. Hyacinthe.	3 "	0 75	E. D. Smith, Winona, Ont.		E.D.S....
"	24	"	63018 Bray Bros., Wellington St., Sherbrooke.	3 "	1 05	Welch Grape Juice Co., Westfield, N.Y.		Welch....
"	24	"	63019 " " "	3 "	0 90	" " "		" "
"	25	"	63020 J. E. Dozois, Main St., Granby.	3 "	1 00	E. D. Smith, Winona, Ont.		E.D.S....
Dec.	9	"	62839 James Fortune, Huntingdon.	3 "	1 05	Welsh Grape Juice Co., Westfield, N.Y.		Welsh....



## SESSIONAL PAPER No. 14

## UNFERMENTED GRAPE JUICE.

Results of Analysis.												Remarks and Opinion of the Chief Analyst.	
Sp. Gr. of Juice.	Sp. Gr. of Distillate.	Alcohol by volume.	Sp. Gr. of De-alcohol- ized Juice.	Extract		Ash per 100cc.	Acidity as Tartaric per 100cc.	Reducing Sugars per 100cc.	Milligrams Phosphoric Acid per 100cc.	Preservatives.	Dyes.		No. of Sample.
			From Sp. Gr. of De-alcoholized Juice		By drying 24 hours at 100° C.								

*Continued.*

See	Sample	No.	60159	and	62013							62538
See	Sample	No.	55112, 60709, 64537,		2621							62539
See	Sample	No.	61566									62540
See	Sample	No.	55114	63543								62541
See	Sample	No.	2620									62542
See	Sample	No.	64610									62543
See	Sample	No.	55112, 60709, 64537,		2621							62544

J. J. COSTIGAN, ACTING INSPECTOR.

See	Sample	No.	64610									63016
See	Sample	No.	2620									62836
See	Sample	No.	61566									62837
See	Sample	No.	55112, 60709, 64537,		2621							63017
"	"	"	55113, 60710, 63545,		2622, 63955,	60156						63018
"	"	"	55113, 60710, 63545,		2622, 63955,	60156						63019
"	"	"	63017									63020
"	"	"	63018									62839

6 GEORGE V, A. 1916  
BULLETIN No. 307—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the vendor.		Inspector's report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF OTTAWA—

1914.								
Oct.	24	Unfermented Grape Juice.	63536 W. D. Maclean, Kemptville.	3 bot.	1 50	Pelee Isl. Wine & Vineyard Co., Pelee Island.	.....	Pelee Isl. and.
"	31	" ..	63537 O. C. Abott, Smith's Falls.	3 "	1 50	Hagar Bros, Welland, Ont.	.....	Imperial Brand.
Nov.	6	" ..	63538 E. D. Story, Ottawa.	3 "	0 60	Walker's Grape Products, Erie, Pa.	F. Bradley, Ottawa Agent.	Walker's.
"	6	" ..	63539 D. S. Johnston, Rideau St., Ottawa.	3 "	0 60	Welsh Grape Juice Co., Westfield, N.Y.	Ottawa Drug Co., Ottawa.	Welch..
"	6	" ..	63540 T. W. Collins, Ottawa.	3 "	0 60	Schuhles, P.G.J. Co., Inc., Highland, Ulster Co., N.Y.	.....	Schuhle's. Contains about 2 % gran. sugar.
"	6	" ..	63541 Allen & Cochrane, Wal- ler St., Ottawa.	3 "	1 80	United Drug Co., Toronto.	.....	Liggett's..
"	7	" ..	63542 E. M. Ahern, Ottawa.	3 "	0 45	E. D. Smith, Winona, Ont.	.....	E.D.S....
"	7	" ..	63543 Bryson Graham, Ltd., Ottawa.	3 "	0 99	Armour & Co., Chicago.	.....	Top Notch Brand.
"	7	" ..	63544 " " "	3 "	0 75	Ont. Grape Juice Co., Niagara Falls.	.....	Noye's....
"	7	" ..	63545 N. W. Campbell, Ottawa.	3 "	1 90	Welsh Grape Juice Co., Westfield, N.Y.	.....	Welch....

## DISTRICT OF KINGSTON—

Nov.	2	Unfermented Grape Juice.	61565 F. L. Hooper, Napanee.	3 "	1 05	.....	.....	Red Wing Brand.
"	2	" ..	61566 T. B. Wallace, Napanee.	3 "	1 20	.....	.....	"
"	3	" ..	61567 D. M. Waters, Belleville.	3 "	1 05	.....	.....	"
"	3	" ..	61568 W. Burnett, Cobourg.	3 "	0 75	Glassco's, Hamilton.	.....	Glassco's..
"	4	" ..	61569 The Warne Drug Co., Peterboro.	3 "	1 05	Welsh's, Westfield, N.Y.	.....	Welch....

## SESSIONAL PAPER No. 14

## UNFERMENTED GRAPE JUICE.

Result of Analysis.												No. of Sample.	Remarks and opinion of the chief Analyst.
Sp. Gr. of Juice.	Sp. Gr. of Distillate.	Alcohol by volumes.	Sp. Gr. of De-alcoholized juice.	Extract.		Ash per 100cc.	Acidity as Tartaric per 100cc.	Reducing Sugars per 100cc.	Milligram Phosphoric Acid per 100cc.	Preservatives.	Dyes.		
			From Sp. or of De-alcoholized juice.	By drying 24 hours at 100° C.									

J. A. RICKEY, INSPECTOR.

1.1366	0.9935	4.63	1.1431	37.05	36.49	0.200	0.900	29.24	26	None.	Pre-sent.	63536	Slight excess Sugars, and is dyed. Excess Alcohol.
1.085	0.9990	0.07	1.085	22.36	19.84	0.210	0.908	20.99	13	"	None.	63537	Slightly low in phosphoric acid. Otherwise Genuine.
See	Sample	No.	61175	.....	.....	.....	.....	.....	.....	.....	.....	63538	
"	"	"	63018	.....	.....	.....	.....	.....	.....	.....	.....	63539	
"	"	"	64610	.....	.....	.....	.....	.....	.....	.....	.....	63540	
1.075	0.9997	0.20	1.077	20.00	16.82	0.270	0.823	16.79	44	None.	None.	63541	Genuine.
See	Sample	No.	63017	.....	.....	.....	.....	.....	.....	.....	.....	63542	
1.072	0.9996	0.26	1.076	19.73	14.73	0.210	0.855	15.15	42	None.	None.	63543	Genuine.
1.068	0.9996	0.26	1.070	18.16	13.75	0.200	1.15	15.55	12	"	"	63544	Genuine, except that phosphoric acid is slightly low.
1.067	0.9994	0.40	1.073	18.95	14.21	0.240	0.95	15.90	55	"	"	63545	Genuine.

JAMES HOGAN, INSPECTOR.

See	Sample	No.	61566	.....	.....	.....	.....	.....	.....	.....	.....	61565	
1.084	0.9996	0.26	1.088	22.88	17.50	0.230	1.01	19.80	18	None.	None.	61566	Genuine.
See	Sample	No.	61566	.....	.....	.....	.....	.....	.....	.....	.....	61567	
1.1219	1.000	None.	1.1219	30.43	24.40	0.30	1.43	24.63	35	None.	None.	61568	Genuine
See	Sample	No.	63018	.....	.....	.....	.....	.....	.....	.....	.....	61569	

6 GEORGE V, A. 1916

BULLETIN No. 307—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1914.								
Nov. 16	Grape Juice.	64601	Peter Leos, Collingwood	3 bots.	0 45	Vendor .....		P. Leos ..
" 20	" ..	64602	The Northway Co., Ltd., Orillia.	3 " ..	0 75	Randall Grape Juice Co., Jordan, Ont.		Randall's.
" 21	" ..	64603	H. J. Buchanan, Barrie.	3 " ..	0 90	Welch Grape Juice Co., Westfield, N.Y.		Welch ....
" 24	" ..	64604	D. H. Bee, 240 Gerrard St. east, Toronto.	3 " ..	0 75	Glassco Ltd., Hamilton.		Glassco ...
" 25	" ..	64605	Jordan & Saunders, 290 Dundas St., Toronto.	3 " ..	0 85		John Sloan & Co., Toronto.	Red Wing Brand.
" 26	" ..	64606	Swan Bros., 162 King St. east, Toronto.	3 " ..	0 90	Armour & Co., Chicago.		Top Notch
" 26	" ..	64607	J. Hungerford Smith Co., 19 Alice St., Toronto.	3 " ..	0 75	Hungerford Smith Grape Juice Co., Rochester, N.Y.		Royal Purple.
" 26	" ..	64608	Liggett's Ltd., 224 Yonge St., Toronto.	3 " ..	0 90	Randall Grape Juice Co., Jordan, Ont.		Randall's.
" 26	" ..	64609	The T. Eaton Co., Ltd., 190 Yonge St., Toronto.	3 " ..	0 90	Bass Island Vineyard Co., Sandusky, Ohio.		Bass Island.
" 26	" ..	64610	McLaren Imperial Cheese Co., 69 Front St. east, Toronto.	3 " ..	0 51	Schuhles P.G.J. Co., Highland, Ulster Co., N.Y.		Schuhle's.
DISTRICT OF HAMILTON—								
Nov. 3	Unfermented Grape Juice.	64537	J. A. Armour, 889 2nd Ave. east, Owen Sound.	3 bots.	0 75	E. D. Smith, Winona, Ont.		E. D. S ..
" 10	" ..	64538	E. E. Fisher & Sons, Dundas.	3 " ..	0 75	Randall Grape Juice Co., Jordan, Ont.		Randall's.
" 10	" ..	64539	A. A. Adams, 270 King St. east, Hamilton.	3 " ..	0 57		Imperial Extract Co., Toronto.	Imperial.
" 10	" ..	64540	H. Taylor, 563 King St. east, Hamilton.	3 " ..	0 75		A. A. Adams, Hamilton.	Schuhle's.
" 10	" ..	64541	John Carpenter, Market Square, Hamilton.	3 " ..	0 75	Ontario Grape Growing and Wine Mfg. Co., St. Catharines.		Royal ....



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BULLETIN No. 307—

Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
					Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WINDSOR—									
1914.									
Nov.	3	Unfermented Grape Juice.	63931	J. D. McKenzie, Woodstock.	3 bots.	2 25	.....	J. S. Hamilton, Brantford.	Pelee Island.
"	4	" ..	63955	J. Gustin, Simcoe.....	3 " ..	0 90	Welch Grape Juice Co., Westfield, N.Y.	.....	Welch ..
"	6	" ..	63967	J. A. Gillett, Aylmer, Ont.	3 " ..	0 90	T. A. Lytle Co., Toronto.	.....	Sterling ..
"	6	" ..	63972	H. G. Charlton, Aylmer, Ont.	3 " ..	0 60	Armour Co., Chicago.	.....	Top Notch
DISTRICT OF MANITOBA—									
Oct.	27	Unfermented Grape Juice.	61172	D. W. Bradshaw, Portage ave., Winnipeg.	3 bots.	90	Walker Grape Products Co., Erie, Pa.	.....	Walker's..
"	27	" ..	61173	McCullough Drug Store, Portage and Sherbrooke sts., Winnipeg.	3 " ..	1 05	Welch Grape Juice Co., Westfield, N.Y.	.....	Welch ....
"	27	" ..	61174	" ..	3 " ..	1 05	Walker Grape Products Co., Erie, Pa.	.....	Walker's..
"	27	" ..	61175	Brookings Drug Store, Osborne st., Winnipeg.	3 " ..	1 05	The Grape Products Co., North East, Pa.	.....	" ..
"	27	" ..	61176	Hardy & Buchanan, Osborne st., Winnipeg.	3 " ..	90	Welch Grape Juice Co., Westfield, N.Y.	.....	Welch ....
"	28	" ..	61177	E. Nesbitt, druggist, 587 Sargent ave., Winnipeg.	3 " ..	1 05	Walker Grape Products Co., Erie, Pa.	.....	Walker's..
"	28	" ..	61178	The Sargent Pharmacy, Sargent ave., Winnipeg.	3 " ..	90	Armour & Co. ..	Hndson's Bay Co., Winnipeg;	Top Notch
"	28	" ..	61179	H. D. Campbell, Main st., north, Winnipeg	3 " ..	1 05	Walker Grape Products Co., Erie, Pa.	.....	Walker's..
"	29	" ..	61180	The Gordon Mitchell Drug Co., 336 Portage ave., Winnipeg.	3 " ..	75	Shiriffs, Toronto.	.....	Shiriffs ..
"	29	" ..	61181	" ..	3 " ..	90	Welch Grape Juice Co., Westfield, N.Y.	.....	Welch ....



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BULLETIN No. 307—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF SASKATCHEWAN—								
1914.								
Oct. 28	Grape Juice	64057	S. Miller, Prince Albert	3 pints	1 25	Randall Grape Juice Co., Jordan, Ont.		Randall Gold Medal Brand
" 30	" ..	64069	Saskatoon Liquor Co., Saskatoon.	3 "	90	Walker Grape Products Co., Erie, Pa.	Swift-Canadian Co., Winnipeg.	Walker's..
Nov. 3	" ..	64068	W. H. Birt, Pense....	3 "	75	E. D. Smith, Winona, Ont.		E.D.S....
" 4	" ..	64085	Gold Coin Liquor Store, Moose Jaw.	3 "	1 20	Puritan Food Products Co., Fredonia, N.Y.	Codville Co., Moose Jaw	Red Wing Brand
" 4	" ..	64086	Moose Jaw Drug and Stationery Co., Moose Jaw.	3 "	1 20	United Drug Co., Toronto.		Liggett Brand.
DISTRICT OF ALBERTA—								
Nov. 18	Unfermented Grape Juice.	52029	Pryce Jones(Canadian) Ltd., Calgary.	3 bots.	1 20	Armour & Co., Chicago.		Top Notch
" 19	" ..	52030	Wendell Maclean, Calgary.	3 "	1 20	Welch Grape Juice Co., Westfield, N.Y.		Welch....
" 25	" ..	52031	Young Bros., Camrose	3 "	75	The Grape Products Co., North East, Pa.		Walker's..
" 26	" ..	52032	Montgomery Bros., Wetaskiwin.	3 "	1 05	Fremont Grape Juice Co., Fremont, Ohio.		Fremont..
" 27	" ..	52033	A. M. Campbell, Lacombe.	3 "	1 20	Welch Grape Juice Co., Westfield, N.Y.		Welch....
DISTRICT OF ROCKY MOUNTAINS—								
Nov. 10	Grape Juice.	61701	E. W. Hazlewood, Trail.	3 bots.	1 80	United Drug Co., Toronto.		Liggett Brand.
" 10	" ..	61702	Trail Grocery Co., Trail.	"	1 35	Welch Grape Juice Co., Westfield, N.Y.		Welch....
" 10	" ..	61703	" " ..	"	1 20	Fremont Grape Juice Co., Fremont, Ohio.		Fremont..
" 23	" ..	61724	Western Liquor Co., Kamloops.	"	2 25	Bass Islands Vineyard Co., Sandusky, Ohio.		Bass Island
" 23	" ..	61725	Hudson's Bay Co., Kamloops.	"	1 00	Armour & Co., Chicago.		Top Notch.



## SESSIONAL PAPER No. 14

## UNFERMENTED GRAPE JUICE.

Results of Analysis.													Remarks and Opinion of the Chief Analyst.
Sp. Gr. of Juice.	Sp. Gr. of Distillate.	Alcohol by Volume.	Sp. Gr. of De-alcohol-ized Juice.	Extract.		Ash per 100cc.	Acidity as Tartaric per 100cc.	Reducing sugars per 100cc.	Milligram Phosphoric Acid per 100cc.	Preservative.	Dyes.	No. of Sample.	
				From Sp. Gr. of De-alcoholized Juice.	By drying 24 hours at 100°C.								
L. H. HALL, INSPECTOR.													
See	Sample	No.	60159,	62013								64057	
"	"	"	61175									64069	
"	"	"	55112,	60709,	64537,	2621						64068	
"	"	"	61566									64085	
"	"	"	61701,	63541								64086	
A. W. R. MARKLEY, INSPECTOR.													
See	Sample	No.	55114,	63543								52029	
"	"	"	61173									52030	
"	"	"	61175									52031	
1·064	0·9999	0·07	1·068	17·64	14·59	0·260	0·968	14·40	27	None.	None.	52032	Genuine.
See	Sample	No.	61173									52033	
THOS. PARKER, INSPECTOR.													
1·066	0·9999	0·07	1·065	16·83	13·43	0·245	0·902	14·00	36	None.	None.	61701	Genuine.
See	Sample	Nos.	55113,	60710,	63545,	2622,	63955,	60156,				61702	
"	"	"	55111,	52032								61703	
1·077	1·000	None.	1·077	20·00	16·04	0·215	1·05	18·70	23	Sul-phur-ous Acid.	None.	61724	Genuine, but contains sulphites.
See	Sample	Nos.	55114	63543								61725	

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BULLETIN No. 307—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF VANCOUVER—

1914.								
Oct.	27	Grape Juice.	55111	J. P. Sinclair, corner Commercial Dr. and 14th Ave., Vancouver.	3 bots.	0 90	Fremont, G. J. Co., Fremont, Ohio.	Fremont's
"	28	" ..	55112	F. Lyons, Commercial Dr., Vancouver.	"	0 60	E. D. Smith, Winona, Ont.	E.D.S. ....
"	29	" ..	55113	T. W. Turner, 890 Pender St., Vancouver.	"	1 00	Welch, G. J., Co., Westfield, N. Y.	Welch ....
"	29	" ..	55114	W. H. Walsh, corner Davie and Seymour St., Vancouver.	"	0 75	Armour & Co., U.S.A.	Top Notch
"	29	" ..	55115	A. Murphy & Co., 110½ Granville St., Vancouver.	"	0 75	The Randall, G. J. Co., Jordon, Ont.	Randall's .

## DISTRICT OF VICTORIA—

Nov.	5	Grape Juice.	62003	The Windsor Grocery Co., 817 Govt. St., Victoria.	ts.	1 05	Armour & Co., Chicago.	Top Notch Brand. .
"	6	" ..	62008	The West End Grocery Co., 1002 Govt. St., Victoria.	3 bots.	1.00	Welch Grape Juice Co., Westfield, N. Y.	Welch's....
"	9	" ..	62012	Copas & Young, corner Broad and Fort Sts., Victoria.	"	0 75	Fremont Grape Juice Co., Fremont, Ohio.	Fremont..
"	9	" ..	62013	" " ..	"	0 75	Randall Grape Juice Co., Jordon, Ont.	Randall's Gold Medal Brand
"	11	" ..	62022	Acton Bros., 1317 Douglas St., Victoria.	"	0 75	E. D. Smith, Winona, Ont.	E.D.S. ....

## SESSIONAL PAPER No. 14

## UNFERMENTED GRAPE JUICE.

Results of Analysis.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
Sp. Gr. of Juice.	Sp. Gr. of Distillate.	Alcohol by Volume.	Sp. Gr. of De-alcoholized Juice.	Extract.		Ash per 100cc.	Acidity as Tartaric per 100cc.	Reducing sugars per 100cc.	Milligram Phosphoric Acid per 100cc.	Preservative.	Dyes.		
				From Sp. Gr. of De-alcoholized Juice.	By drying 24 hours at 100° C.								

E. J. MORGAN, INSPECTOR.

1·061	1·000	None.	1·060	15·5	13·38	0·315	1·18	13·58	28	None.	None.	55111	Genuine.
1·121	1·000	"	1·119	31·0	26·30	0·265	1·24	26·70	25	"	"	55112	Genuine.
1·066	0·9996	0·66	1·077	20·0	13·90	0·210	0·88	14·67	22	"	"	55113	Genuine.
1·065	0·9992	0·53	1·073	18·95	14·30	0·270	1·00	14·27	41	"	"	55114	Genuine.
See	Sample	Nos.	60159,	62013	.....	.....	.....	.....	.....	.....	.....	55115	

D. O'SULLIVAN, INSPECTOR.

See	Sample	Nos.	55114,	63543	.....	.....	.....	.....	.....	.....	.....	62003	
"	"	"	61702	..	.....	.....	.....	.....	.....	.....	.....	62008	
"	"	"	55111,	52032	.....	.....	.....	.....	.....	.....	.....	62012	
1·084	0·9996	0·26	1·088	22·88	17·00	0·220	1·08	18·60	32	None.	None.	62013	Genuine.
See	Sample	Nos.	55112,	60709,	64537,	2621	.....	.....	.....	.....	.....	62022	

## APPENDIX X.

## BULLETIN No. 308—BAKING POWDERS.

OTTAWA, March 16, 1915.

J. U. VINCENT, Esq.,  
Deputy Minister, Inland Revenue,

SIR,—I beg to hand you a report of work done upon two hundred and fifty-one (251) samples of Baking Powders purchased by our inspectors in October, November and December of last year.

This article has been the subject of four (4) reports, previous to the present one, as follows:—

Year.	Bulletin.	Total Samples.	Cream Tartar.	Alum Phosphate.	Alum.	Others, Chiefly Acid Phosphate.
1889 .....	10	148	73	59	5	11
1900 .....	68	168	54	83	31	0
1908 .....	174	158	60	84	14	0
1912 .....	240	150	46	68	5	31
1915 .....	308	251	32	111	32	76
		875	265	405	87	118

This conspectus shows that Cream of Tartar Baking Powders are gradually giving place to the cheaper powders made with dessicated alum and acid phosphate of lime.

So far as baking quality goes, these last, when well made, are perfectly satisfactory. They yield carbon dioxide gas in sufficient amount, and with the necessary slowness to produce a spongy dough.

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Upon the general subject of Baking Powders, I cannot do better than quote from my introductory letter to Bulletin No. 174.

The qualities demanded in a satisfactory baking powder, are:—

1. Efficiency as a gas producer.
2. That the gas be generated gradually, and only completed at the temperature of the oven.
3. That the powder keep well, either on the grocer's shelves or in the kitchen.
4. That the residues left in the bread should be harmless to health, and without undesirable taste or discolouring power.
5. That the powder be sold at a low price.

I have not attempted to enumerate these conditions of value in the order of their importance, for the simple reason that this will be different for different people. It must be inferred, from the table above given, that the alum phosphate powder meets the case, in the opinion of the Canadian consumer. A few words of comment and explanation may be offered.

1. *Efficiency as gas producer.*—Since the gas (carbon dioxide) evolved from any one of these types of baking powder is dependent upon the decomposition of bi-carbonate of soda, contained therein, it would seem at first sight, that the powder containing most bi-carbonate of soda would be the best. Unless, however, the acid component be present in sufficient amount to completely decompose the bi-carbonate, a residuum of carbonate of soda remains in the bread, and gives a yellow, mottled appearance, and a soapy taste to it. For this reason, the amount of bi-carbonate of soda that can be present in a baking powder is limited to the acid value of the complementary component. The maximum amount of bi-carbonate of soda which can be theoretically present in the three types of powder here considered, is as follows:—

	Bi-Carbonate of Soda.	Available Gas.
1 Cream of Tartar Powder.....	30·8 p.c.	16·18 p.c.
2 Alum Powder (See Bull. 10 p. 28).....	51·5 "	27·00 "
3 Alum Phosphate Powder (See Bull. 26 p. 22.).....	39·65 "	20·77 "

(As a matter of fact, it is not possible to fix a limit value to the alum phosphate powder, since varying proportions of the alum and phosphate of lime in the mixture cause the acid values to vary between the limits for 100 per cent alum and 100 per cent acid phosphate of lime. For a commercial sample of the latter (Bull. 26, p. 22) the values 29·5 p.c. bi-carb. soda = 15·5 p.c. gas, were found.)

The theoretical limits above quoted are not available in practice for the reason that, unless some third substance, of an inert character, is added, the mixture will more or less rapidly deteriorate, through the presence of traces of moisture in the powder itself or by access of moisture from the air. It is usual to employ starch (flour or maize) as the filler; but in alum phosphate powders, sulphate of lime (*terra alba*), as well as starch, is usually found. This *terra alba* is not necessarily added intentionally, but is a bye product in the manufacture of acid phosphate of lime. It is further to be noted that the limits mentioned are only possible where the acid component is chemically pure, a condition not to be looked for, and very seldom occurring in commerce. If we assume commercial cream of tartar of good quality to be 94·95 per

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cent pure and a filler (starch) to be added in the proportion of 20 per cent by weight, the resultant baking powder would have the following composition:—

	Per cent.
Bi-carbonate of soda . . . . .	23·7
Cream of Tartar . . . . .	56·3
Starch . . . . .	20·0
	<hr/> 100·0

Such a baking powder is capable of developing 12·38 per cent, by weight of gas, and may be considered as a typical, high class Cream of Tartar powder.

2. Gradual development of the gas is important because gas must be continuously produced while the bread is in the oven, and until the dough “sets,” i.e. becomes hard enough to retain its size and shape when cool. Otherwise, collapse of the loaf results, and the bread is “heavy” or “sad”. Fulfilment of this condition depends chiefly upon the sparing solubility of the acid ingredient of the powder. Cream of tartar, alum, (dehydrated) and alum phosphate of lime are found to meet necessary conditions. Doubtless the too ready solubility of tartaric acid, bi-sulphate of potash and acid phosphate of lime (per se) is the reason why these substances are now so seldom used in baking powders.

3. The keeping qualities of the powder depend upon the thorough drying of the components, separately; the proper employment of a filler, and the careful protection of the finished powder from atmospheric damp.

4. With exception of the starch used as a filler, the components of baking powders have no food value, and must be regarded as, at least, indifferent and perhaps positively harmful. When cream of tartar is the acid component, the residue is Rochelle salt, a gentle aperient and probably doing no harm to healthy people.

With alum, the residue is a mixture of alumina and sulphate of soda (Glauber's salt), the latter a powerful purgative and the former an insoluble substance. In alum phosphate powders, the residue is a mixture of phosphate of alumina, or alumina; (Glauber's salt, and phosphate of soda.) The last is a gentle purgative.

The above statements assume that the reaction between bi-carbonate of soda, and the acid ingredient of the powder, is completed during the process of baking; and that the components have been so nicely balanced, that the resultant bread is free from either component in excess. It is safe to say that this condition is very seldom, and probably never fulfilled. In such case, if any considerable excess of bi-carbonate of soda exists in the powder, the resultant bread will contain yellow spots, due to carbonate of soda (same as washing soda) and will have a soapy taste. If the acid used be in excess, the resultant bread will contain unchanged cream of tartar, or alum. The last named is known to be injurious to health, and its possible presence is the main reason for preferring powders made without alum. Manufacturers seek to prevent the possibility of residual alum by adding a distinct excess of bi-carbonate of soda, to these powders. By consulting the appended tables it will be seen that this excess, in case of alum-phosphate runs from three to four or more per cent. The number given in the column headed “residual carbon dioxide,” must be multiplied by  $\frac{8}{44}$  = 1·91 to give the excess in terms of bi-carbonate of soda.

It is not necessary to add so great an excess of bicarbonate to a cream of tartar powder, because the reaction between cream of tartar and bi-carbonate is more definite than that between burnt alum and bi-carbonate. The great insolubility of burnt alum renders the completion of the reaction, at the temperature of baking, and in the presence of the limited amount of water present in dough, very uncertain.

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5. The question of cheapness in a baking powder is too complex to be discussed at length in this place. Bi-carbonate of soda is quoted at \$1.50 per 100 lbs. f.o.b. Montreal, cream of tartar at \$18 per cwt., burnt alum and acid phosphate of lime are low-priced articles, but I have not been able to get actual figures.

(NOTE.—This was written in 1909.)

It is evident that the cost of making a baking powder is chiefly dependent upon the price of the acid component. The cost of using a baking powder is a different matter. Here the question of effect upon the health comes into consideration, and the price of the article may cut a small figure in the transaction.

In the absence of any legal definition of baking powder, it is, of course, impossible to classify the samples now reported, as genuine or adulterated, so long as they do not contain anything known to be injurious to health. This report serves the purpose of furnishing information regarding baking powder, as now found on the Canadian market, and it is to be hoped that this knowledge may enable a definition of baking powder to be formulated.

Under the heading "available carbon dioxide," in the accompanying tables, will be found the maximum percentage weight of leavening gas obtainable in baking. From what has been already said, we know that a good cream of tartar powder should yield about 12.5 per cent of gas. Any powder which yields more than this amount, almost certainly contains free tartaric acid, or burnt alum. Since any baking powder deteriorates more or less on keeping, we can only expect 12.5 per cent of gas in a perfectly fresh powder. Experience proves, however, that a well-packed baking powder may be kept for several months, or even for a year, without very material change. I am of opinion that a minimum limit of 10 per cent available gas would be quite reasonable, and that there is no necessity for having on the market any baking powder possessing less than 10 per cent of available gas production.

When the reaction between the bi-carbonate of soda and the acid present in the powder is completed, the further addition of acid will cause the evolution of more carbon dioxide gas, provided that an excess of bi-carbonate of soda is present in the powder. The amount of such gas evolved affords a measure of the excess of bi-carbonate in the powder. It must be understood that this additional gas, while available to the analyst in the laboratory, is not available to the cook in ordinary baking operations. The column headed "Residual carbon dioxide" contains the numbers so obtained. This number should be small, in a carefully prepared powder.

The starch component in a baking powder is of no importance except so far as the presence of a high percentage of starch necessitates a lowered percentage of the active components. On account of its high acidity burnt alum permits the use of a high starch percentage, and it is no unusual thing to find from 45 to 50 per cent of starch in alum powders. Alum phosphate powders usually contain from 35 to 45 per cent of starch. As already shown, a good cream of tartar powder cannot contain much above 20 per cent of starch. This may, however, be considerably increased without lowering the efficiency of the powder, if free tartaric acid is made to take the place of an equal weight of cream of tartar.

Sulphate of lime (terra alba) is an undesirable filler. It is usually present in phosphate powders, as the acid phosphate of lime is manufactured by treatment of the neutral phosphate with sulphuric acid, leaving in the product an equivalent weight of sulphate of lime. Less objection can be taken to this modicum of sulphate of lime, than to the addition of terra alba, as such, to the baking powder. While having no positively harmful effect terra alba has the objectionable qualities of great insolubility and total lack of food value.

It is sometimes claimed for it that being less hygroscopic than starch, it makes a better filler, enabling the powder to be kept longer without deterioration. I believe that the majority of consumers would prefer some form of starch and with reason.\*

The foregoing citation from Bulletin 174 is, in the main, applicable to the present report. It contains one statement, however, which requires some explanation. Alum is known to be injurious to health. Its marked astringency and acidity, and the fact that soluble salts of alumina react with food phosphates to render these insoluble, sufficiently explain its unwholesomeness. In order to justify its employment in baking powders, manufacturers have apologized in various ways:—

1. They have claimed that the sodium, aluminium sulphate, chiefly used as a baking powder ingredient, is not an alum. This is a mere subterfuge. It is true that the alums of commerce are either double salts of potassium and aluminium, or of ammonium and aluminium, because these salts crystallize well, whereas the sodium and aluminium sulphate is deliquescent, and does not readily crystallize. But, whether we regard the matter from a chemical or physiological standpoint, the double sulphate of sodium, and aluminium is an alum.

2. They have claimed that, although alum is present in the baking powder, there is no alum in the bread. This, because changes occur in the baking process, which convert the alumina into an insoluble, and therefore a harmless form.

These powders usually contain a considerable excess of bi-carbonate of soda, and if complete reaction could be secured between the soda and the alum this contention would doubtless be realized. But the difficult solubility of burnt alum makes it almost impossible to bring about a complete reaction; and in consequence of this, unchanged alum can easily be demonstrated in the crumb of bread made with an alum powder.

3. They have claimed that the introduction of acid phosphate of lime into alum powders, largely prevents the retention of unchanged alum in the bread. Doubtless the introduction of acid phosphate is an improvement. It at the same time reduces the amount of alum needed to give required acidity, and increases the proportion of insoluble alumina in the bread. So called *alum phosphate* powders now constitute the most numerous class on the Canadian market.

Although alum is recognized as an undesirable component of food it has been held that the minute amount introduced through alum baking powders, cannot be regarded as harmful to health in any appreciable degree. This phase of the matter has recently been made the subject of exhaustive investigation by a Board of Experts in the United States. The Board in question consists of the following:—

Ira Remsen, president of John Hopkins University; Russell H. Chittenden, director of the Sheffield Scientific School; John H. Long, professor of Chemistry in the North Western University; Alonzo E. Taylor, professor of Chemistry in the University of Pennsylvania; Theobald Smith, professor of Comparative pathology in Harvard University.

The results of the prolonged experimental investigation carried out by the above named Referee Board, are published as Bulletin No. 103 of the Department of Agriculture, Washington; dated April 29, 1914, and are summed up as follows:—

Aluminum compounds when used in the form of baking powders in foods have not been found to affect injuriously the nutritive value of such foods.

Aluminum compounds when added to foods in the form of baking powders, in small quantities, have not been found to contribute any poisonous or other deleterious effect which may render the said food injurious to health. The same holds true for the amount of aluminum which may be included in the ordinary consumption of aluminum baking powders furnishing up to 150 milligrams (2·31 grains) of aluminum daily.



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Aluminum compounds when added to foods, in the form of baking powders usually provoke catharsis. This action of aluminum baking powders is due to the sodium sulphate which results from the reaction.

The aluminum itself has not been found to exert any deleterious action injurious to health, beyond the production of occasional colic when very large amounts have been ingested.

When aluminum compounds are mixed or packed with a food, the quality or strength of said food has not been found to be thereby reduced, lowered, or injuriously affected.

The decision reached would appear to place alum baking powders in practically the same class, with other baking powders, so far as the effect upon health is concerned. If this be conceded, there remains only the question of value received by the consumer. Regarded merely as a leavening agent, what may the purchaser of a baking powder reasonably expect in gas developing power?

It has already been shown that a properly made baking powder, where cream of tartar is the acid ingredient should yield about 12.38 per cent of available gas. Cream of tartar powders were, unquestionably, the first found in commerce; and all subsequent baking powders have been so made as to approximate in gas producing power, to the cream of tartar powder. Some of these later powders produce more gas than a cream of tartar powder can be made to yield; but by far the greater number, and apparently the most approved by the public, aim at about 12.5 per cent of gas.

The following history of inspection in this regard, may be put on record.

## AVAILABLE GAS

*Inspection of 1889.*

	Samples.	Average gas p.c.
Cream of Tartar Powders.....	47	8.64
Cream Tartar with Tart. Acid.....	13	9.09
Cream Tartar with Carbonate of Ammonia.....	14	11.17
Alum Baking Powders.....	5	7.66
Acid Phosphate Powders.....	4	6.38
Alum Phosphate Powders.....	59	7.79
Bi-Sulphate Potash Powders.....	7	3.35

*Inspection of 1900.*

Cream of Tartar Powders.....	44	11.70
Alum and Acid Phosphate.....	88	8.70
Alum Powders.....	24	10.30

*Inspection of 1908*

Cream of Tartar Powders.....	60	10.66
Alum Baking Powders.....	14	11.49
Alum Phosphate Powders.....	84	9.74

*Inspection of 1911.*

Cream of Tartar Powders.....	46	11·01
Alum Powders.....	5	12·40
Acid Phosphate.....	31	11·25
Alum Phosphate.....	68	10·78

*Inspection of 1914*

Cream of Tartar Powders ... ..	32	11·24
Alum Phosphate Powders.....	111	11·41
Alum Powders.....	32	11·62
Other Powders.....	76	11·08

*Summary.*

1889—149 samples averaged 8·17 per cent gas.

1900—156       “       9·80       “

1908—158       “       10·24       “

1911—150       “       11·00       “

1914—251       “       11·81       “

This summary indicates clearly a great and increasing improvement in the character of baking powders, regarded as leavening agents, since their first inspection in 1889.

Further, it appears to justify the contention that a good baking powder should be capable of yielding at least 10 per cent of available gas, as determined by laboratory methods

In this connection it is necessary to remark that, while the available gas in the case of a cream of tartar powder, or an acid phosphate powder, is easily determinable by a few minutes boiling with water, the very difficult solubility of dehydrated alum, makes it necessary to continue the boiling for some length of time, in order to secure complete interaction of the acid ingredient and the bicarbonate of soda. The following figures illustrate this point. In all cases two (2) grammes of the sample was treated with one hundred and fifty cc. (150 cc.) water, and heat gradually applied, with final boiling of the water for from ten to thirty minutes (10-30).

*Alum Phosphate Powders.*

No.	Time in minutes.	Available gas.	Residual gas.	Total gas.	Total duration of experiment.
62574 }	45	3·7	3·1	12·8	105 minutes.
	70	10·15	2·15	12·3	130   “
247 }	50	4·9	8·4	13·3	90   “
	60	6·95	6·00	12·95	105   “
55117 }	50	7·65	4·40	11·65	90   “
	60	11·80	0·15	11·95	75   “
55122 }	40	7·2	4·95	12·15	80   “
	80	11·35	1·33	12·7	125   “
59642 }	45	5·55	5·6	11·15	95   “
	60	8·90	1·35	10·25	130   “
62572 (Alum) }	45	5·25	5·05	10·75	100   “
	90	7·35	3·60	10·95	130   “

## SESSIONAL PAPER No. 14

It is inconceivable that in actual baking, a higher yield of gas should be obtained than is represented by a laboratory experiment of thirty minutes duration, including a period of ten minutes at boiling temperature. For the purposes of a legal test, however, it might be permissible to define a period of thirty minutes before boiling followed by 10 or 15 minutes at boiling temperature. It is evident that some investigatory work is necessary to determine conditions quite fair to all concerned. This matter will receive attention with as little delay as possible. The available gas reported at this time, has been determined by work extending over about 45 to 60 minutes.

Regarding the 251 samples now reported, the following synopsis may be of interest.

Available gas above 12 per cent. . . . .	100 Samples.
“ “ 11 “ . . . . .	62 “
“ “ 10 “ . . . . .	45 “
“ “ 9 “ . . . . .	12 “
“ “ 8 “ . . . . .	15 “
“ “ 7 “ . . . . .	5 “
“ “ 6 “ . . . . .	5 “
“ gas below 6 “ . . . . .	7 “
Total . . . . .	251 “

I beg to recommend publication of this report as Bulletin No. 308

I have the honour to be Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

6 GEORGE V, A. 1916  
BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

1914.							
Dec. 15	Baking Powder.	54206	D. C. Mulhall, Liverpool, N.S.	3 pkgs	45	Royal Baking Powder Co., New York.	R. B. Seaton, Halifax.
" 15	"	54207	F. L. Sheldon & Son, Liverpool, N.S.	3 "	30	E. W. Gillett Co., Toronto.	" " "
" 16	"	54208	H. C. Barnaby & Son, Bridgewater, N.S.	3 "	30	W. M. D. Pearson, Halifax.	Unknown .....
" 29	"	54209	Wm. Moore, Halifax, N.S.	3 "	10	" " "	Manufacturer...
" 29	"	54210	Corkum & Ritesy, Halifax, N.S.	3 "	10	Gray Mfg. Co., Halifax.	" " "
1915.							
Jan. 14	"	54211	Eaton & Co., Canning, N.S.	3 "	30	Coffee and Spice Mills, St. John, N.B.	.....
" 14	"	54212	Lamont & Steadman, Kentville, N.S.	3 "	30	Coleman B. P. Co., Brockville.	.....
" 15	"	54213	Shand Bros., Windsor, N.S.	3 "	30	E. W. Gillett.....	.....
" 15	"	54214	D. Wood, Windsor, N.S.	3 "	15	W. M. D. Pearson, Halifax.	R. B. Seaton, Halifax.
" 15	"	54215	H. H. Richardson, Windsor, N.S.	3 "	30	Royal Baking Powder Co., New York.	.....

## DISTRICT OF NOVA SCOTIA—

1914.							
Dec. 5	Baking Powder.	65801	The 2 Barkers, Ltd., Glasgow.	3 tins.	42	Royal Baking Powder Co., New Jersey.	McCulloch, Creelman, Urquhart, Truro.
" 5	"	65802	A. A. McDonald, Glasgow.	3 "	45	" " "	.....
" 5	"	65803	James McArthur, Glasgow.	3 "	30	Coleman B. P. Co., Brockville.	Barber's, St. John, N.B.
" 7	"	65804	Abraham Myette, Tracadie.	3 "	30	E. W. Gillett Co., Toronto.	John Tobin & Son, Halifax.

## DISTRICT OF NEW BRUNSWICK—

Nov. 10	Baking Powder.	59636	Walter Gilbert, St. John, N.B.	3 tins.	30	Coleman Baking Powder Co., Ltd., Brockville, Ont.	.....
" 11	"	59638	Standard Extract Co., St. John, N.B.	3 "	Nil.	Vendor .....	.....
" 10	"	59637	Dearborn & Co., St. John, N.B.	3 "	30	" .....	.....

## SESSIONAL PAPER No. 14

## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Carbon Dioxide.					Character of Powder.
	Available	Residual.	Total.			

## R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.		
Royal Brand.....	12.40	0.50	12.90	Cream of Tartar.....	54206
Magic ".....	11.60	0.10	11.70	Phosphate.....	54207
Woodill's, German.....	8.05	0.85	8.90	".....	54208
" ".....	8.30	1.90	10.20	".....	54209
New Process.....	9.40	0.65	10.05	".....	54210
Dearborn's .....	11.00	0.20	11.20	Cream of Tartar..	54211
Coleman's Special.....	14.05	0.50	14.55	Alum Phosphate.....	54212
Magic Brand .....	10.45	0.25	10.70	Phosphate.....	54213
Woodill's, German.....	8.40	1.30	9.70	".....	54214
Royal Brand.....	12.15	0.40	12.55	Cream of Tartar.....	54215

## W. A. PETIPAS, TEMPORARY INSPECTOR.

Royal.....	11.00	1.55	12.55	Cream of Tartar.....	65801
".....	10.65	1.25	11.90	".....	65802
Coleman's .....	11.40	0.60	12.00	Alum Phosphate...	65803
Magic .....	11.35	0.45	11.80	Phosphate.....	65804

## J. C. FERGUSON, INSPECTOR.

Coleman's Special.....	13.15	0.90	14.05	Alum Phosphate.....	59636
Golden Crown Brand.....	13.50	0.30	13.80	Phosphate.....	59638
Perfect Brand .....	12.10	0.15	12.25	Cream of Tartar.....	59637

6 GEORGE V, A. 1916

BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1914.							
Nov. 17	Baking Powder.	59639	W. H. Flemming, Woodstock, N.B.	3 tins.	45	E. W. Gillett Co., Toronto.	
" 17	"	59640	W. B. DeLong, Woodstock, N.B.	3 "	75	National Drug and Chemical Co., Canada.	
" 19	"	59641	D. R. Bidell, Andover, N.B.	3 "	90	Royal B. P. Co., New York.	
" 20	"	59642	Currie Bros., Fredericton, N.B.	3 "	45	Coleman B. P. Co., Brockville.	
" 26	"	59643	P. F. McKenna, St. Stephen, N.B.	3 "	40	Royal B. P. Co., New York.	
Dec. 9	"	59644	Reed Co., Ltd., Moncton, N.B.	3 "	30	E. W. Gillett Co., Toronto.	
" 10	"	59645	W. S. Loggie Co., Ltd., Chatham, N.B.	3 "	30	Dearborn & Co., St. John, N.B.	

DISTRICT OF PRINCE EDWARD ISLAND—

Oct. 24	Baking Powder.	60146	Beer & Goff, Ch.-town.....	3 pkgs	30	E. W. Gillett Co., Toronto.	
" 24	"	60147	" " " " " " " " " "	3 "	90	Royal B. P. Co., New York.	
" 24	"	60148	Jenkins & Sons, Ch.-town..	3 "	30	Coleman B. P. Co., Brockville, Ont.	
" 24	"	60149	Stewart & Sons, Ch.-town.	3 "	60	Johnson & Johnson, Ch.-town.	
" 27	"	60150	Coffin & Co., Ch.-town.....	3 "	30	Royal B. P. Co., New Jersey.	
" 27	"	60151	J. C. Crabbe, Ch.-town....	3 "	30	" " " " " " " " " "	E. F. McEachern Ch.-town.
" 27	"	60152	" " " " " " " " " "	3 "	30	E. W. Gillett Co., Toronto.	
" 27	"	60153	Johnson & Johnson, Ch.-town.	3 "	60	Vendor " " " " " " " "	

DISTRICT OF QUEBEC—

Nov. 3	Poudre à Pate.	60739	O. Lacroix, 19 Rue St. Joseph, Quebec.	3 pkgs	15	T. D. McLaren, Ltd., Montreal.	Turcotte & Frere
" 3	"	60740	" " " " " " " " " "	3 "	75	Royal B. P. Co....	J. B. Renaud & Cie.
" 3	"	60741	" " " " " " " " " "	3 "	75	Duffy Co., Montreal.	Turcotte & Frere
" 3	"	60742	" " " " " " " " " "	3 "	45	Quebec B. P. ....	Harmenegile Pare, Quebec.
" 4	"	60743	A. Grenier, 94 Rue St. Jean, Quebec.	3 "	45	Coleman B. P. Co.	N. Turcotte & Cie.
" 5	"	60744	" " " " " " " " " "	3 "	30	N. D. McLaren, Montreal.	"

## SESSIONAL PAPER No. 14

## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.		
	Available	Residual	Total.			

*Concluded.*

	p. c.	p. c.	p. c.		
Magic Brand.....	5.17	2.41	7.58	Phosphate.....	59639
St. George Brand .....	6.65	0.55	7.20	Cream of Tartar.....	59640
Royal.....	11.95	0.45	12.40	" .....	59641
Coleman's .....	8.90	1.35	10.25	Alum Phosphate.....	59642
Royal.....	12.20	0.45	12.65	Cream of Tartar.....	59643
Magic.....	13.25	0.10	13.35	Acid Phosphate.....	59644
Dearborn's Perfect.....	11.65	0.30	11.95	Cream of Tartar.....	59645

## WM. WEEKS, INSPECTOR.

Magic.....	2.65	1.25	4.90	Phosphate.....	60146
Royal.....	12.30	0.45	12.75	Cream of Tartar.....	60147
Coleman's Special.....	5.90	1.00	6.90	Alum Phosphate .....	60148
Johnson's.....	10.35	2.70	13.05	Acid " .....	60149
Royal.....	10.70	0.55	11.25	Cream of Tartar.....	60150
Cook's Choice.....	7.10	2.25	9.35	Alum .....	60151
Magic.....	10.80	1.30	12.10	Acid Phosphate.....	60152
Johnson's.....	11.45	1.50	12.95	" .....	60153

## F. X. W. E. BELAND, INSPECTOR.

Cook's Friend.....	10.10	0.1	10.2	Acid Phosphate.....	60739
Royal.....	10.60	0.2	10.8	Cream of Tartar.....	60740
Cook's Favorite .....	10.10	5.75	15.85	Alum Phosphate.....	60741
Quebec .....	11.45	1.65	13.10	" .....	60742
Coleman's.....	11.50	2.80	14.30	" .....	60743
Cook's Friend .....	9.25	1.05	10.30	Phosphate.....	60744

6 GEORGE V, A. 1916

BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF QUEBEC—

1914.								
Nov.	5	Poudre à Pate.	60745	Cantin & Frere, 271 Rue St. Joseph, Quebec.	3 pkgs	75	W. D. McLaren, Montreal.	N. Turcotte & Cie.
"	5	"	60746	" "	3 "	45	Coleman, Brockville.	Manufacturer ..
"	5	"	60747	" "	3 "	1.50	Royal. ....	Unknown .....
"	5	"	60748	" "	3 "	30	E. W. Gillett Co., Toronto.	Turcotte & Cie..

## DISTRICT OF QUEBEC PROVINCE—

Nov.	4	Poudre à pâte.	56402	Alphonse Roy, St. Angèle.	3 pkgs	60	E. W. Gillett Co., Toronto.	Turcotte & Frere Quebec.
	4	"	56405	Dame Hector, Hudon.....	3 "	45	Coleman B.P. Co., Brockville	.....
	4	"	56406	Abraham Kilallah, Hudon..	3 "	51	E. W. Gillett Co., Toronto.	.....
	6	"	56412	Philias Côté, St. Octave ..	3 "	75	Coleman B P. Co., Brockville.	.....
	6	"	56415	Louis M. Langlais, St. Octave.	3 "	60	E. W. Gillett Co., Toronto.	Langlais and Paradis, Quebec.
"	6	"	56417	Paul Therriault, Kempt....	3 "	60	" .....	.....
"	7	"	56419	Madame Isadore Dubé St. Moise.	3 "	60	" .....	.....
"	9	"	56420	Joseph H, Laperte, Amqui.	3 "	60	" .....	.....
"	9	"	56423	D. E. Bernier .....	3 "	60	" .....	.....
"	9	"	56425	D. N. Dubé, Amqui.....	3 "	75	" .....	.....

## DISTRICT OF QUEBEC PROVINCE—

Nov.	21	Poudre à pâte.	2728	Jos. M. Dubé, Capt. St. Ignace, Montmagny.	3 pkgs	45	E. W. Gillett Co., Toronto.	J. B. Renaud Quebec.
"	23	"	2731	Jos. Fournier, St. Thomas..	3 "	30	Coleman B.P. Co., Brockville.	.....

## DISTRICT OF QUEBEC PROVINCE—

Oct.	26	Poudre à pâte.	2855	Dorchester, Lumber, St. Malachi.	3 pkgs	45	H. Paré, Quebec..	.....
	26		2857	" " ....	3 "	60	Coleman, Brockville	.....
"	26		2858	" " ....	3 "	60	Gillett, Toronto...	.....



## SESSIONAL PAPER No. 14

## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion).	Result of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Carbon Dioxide.					Character of Powder.
	Available	Residual.	Total.			

*Concluded.*

	p. c.	p. c.	p. c.			
Cook's Friend.....	9.45	1.30	10.75	Acid Phosphate.....	60745	
Coleman.....	11.45	1.40	12.85	Alum ".....	60746	
Royal.....	11.60	0.85	12.45	Cream of Tartar.....	60747	
Magic.....	12.50	1.25	13.75	Acid Phosphate.....	60748	

## ALF. PELLETIER, TEMPORARY INSPECTOR.

Magic.....	12.60	0.90	13.50	Acid Phosphate.....	56402	
Coleman's.....	12.90	0.90	13.80	Alum ".....	56405	
Magic.....	12.90	0.04	12.94	Acid ".....	56406	
Coleman's.....	11.60	2.30	13.90	Alum ".....	56412	
Magic.....	11.90	1.65	13.55	Acid ".....	56415	
".....	12.25	0.40	12.65	" ".....	56417	
".....	9.50	2.90	12.40	" ".....	56419	
".....	12.50	0.10	12.60	" ".....	56420	
".....	10.30	3.35	13.65	" ".....	56423	
".....	11.90	1.75	13.65	" ".....	56425	

## T. GENDREAU, TEMPORARY INSPECTOR.

Reno.....	11.10	1.57	12.67	Alum Phosphate.....	2728	
Coleman's Special.....	12.05	3.50	15.20	" ".....	2731	

## J. E. AUDET, TEMPORARY INSPECTOR.

Quebec.....	15.90	0.10	16.00	Alum Phosphate.....	2855	
Coleman's Special.....	14.10	1.90	16.00	" ".....	2857	
Magic.....	13.35	0.35	13.70	Phosphate.....	2858	

6 GEORGE V, A. 1916

BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, As given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF QUEBEC PROVINCE—

1914.							
Oct. 27	Poudre à Pate.	2862	L. J. Audet, St. Edward, Framton.	3 pkgs	54	.....	Dorchester Lum-ber
" 28	"	2864	L. Laflamme, St. Mar guerite.	3 "	45	.....	N. Rioux, Que-bec.
" 29	"	2853	G. E. Dussault, St. Mar guerite.	3 "	40	.....	.....
Nov. 11	"	3710	Bolduc & Severt, Ste. Sabine.	3 "	60	.....	Gagnon & Gar-ent, Quebec.
" 12	"	3712	Jos. Turgeon, St. Isadore.	3 "	60	.....	Whitehead & Turner, Que-bec.
" 12	"	3713	" " ....	3 "	45	.....	Carrière & Fils, Lévis.
" 13	"	3715	" " ....	3 "	60	.....	Drouin & Frere Quebec.
Dec. 2	"	2869	D. Towell, St. Léon de Standon.	3 "	60	.....	Dorchester Lum-ber, St. Mala-chi.
" 2	"	2870	" " ....	3 "	45	.....	James Hossach, Montreal.
" 2	"	2873	O. Audet, St. Leon de Staudon.	3 "	60	.....	Dorchester Lum-ber.
" 2	"	2874	" " ....	3 "	45	.....	" " ..
" 3	"	2877	A. Cloutier, St. Odilon, Cranborn.	3 "	60	.....	A. B. Dupuis, Quebec.
" 3	"	2878	" " ....	3 "	45	.....	Moulin Ocean, Montreal.
" 4	"	2885	L. J. Audet, St. Edward	3 "	45	Quebec Baking Powders.	Dorchester Lum-ber.
" 8	"	3720	. Dechene, Ste Germaine Station.	.....	.....	Quebec Preserving Quebec.	.....
" 9	"	3724	D. Fortier, Ste Rose, Dorchester.	3 "	60	.....	.....
" 10	"	3726	D. Roy, St. Prospere.	3 "	45	.....	.....
" 10	"	3727	" " ....	3 "	45	.....	.....
" 10	"	3728	" " ....	3 "	60	.....	J. B. Renaud, Quebec.
" 21	"	3730	A. Mercier, Ste Patrice de Beauvinage.	3 "	45	.....	.....
" 21	"	3731	" " ....	3 "	60	.....	.....
" 22	"	3736	O. Tradette, Ste Narcisse-heud, Bois.	3 "	60	.....	.....
" 22	"	3737	" " ....	3 "	45	.....	Quebec Preser-ving, Quebec.
" 22	"	3740	A. Demers, Ste Narcisse-heud Bois.	3 "	60	.....	Gagnon & Gar-ent, Quebec.
" 23	"	3743	J. Blais, St. Bernard, Dorchester.	3 "	45	.....	.....
" 23	"	3744	" " ....	3 "	75	Stroud's Baking Powder, Mon-treal.	.....

## SESSIONAL PAPER No. 14

## BAKING POWDER.

Inspector's Report, (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.		
	Available	Residual.	Total.			

*Continued.*

	p. c.	p. c.	p. c.		
Magic .....	12.30	0.15	12.45	Phosphate.....	2862
" .....	12.25	0.30	12.55	" .....	2864
" .....	10.75	0.20	10.95	" .....	2853
" .....	10.95	2.15	13.10	" .....	3710
" .....	11.25	1.60	12.85	" .....	3712
Cold Star.. .....	8.55	2.90	11.45	Alum Phosphate...	3713
Magic.....	12.50	0.40	12.90	Phosphate. ....	3715
" .....	10.65	3.70	14.35	Acid Phosphate .....	2869
Connaught.....	7.00	0.90	7.90	Alum " .....	2870
Magic.....	11.90	2.00	13.90	Acid " .....	2873
Quebec.....	14.65	1.55	16.20	Alum " .....	2874
Magic.....	9.15	0.35	9.50	Acid " .....	2877
Powder Special.....	8.25	4.65	12.90	Alum " .....	2878
Quebec.....	10.15	0.15	10.30	Alum (trace of Phosphate)	2885
Miville... ..	15.10	1.50	16.6	Alum.....	3720
Magic.....	13.35	0.60	13.95	Phosphate.....	3724
Keno .....	13.60	0.80	14.4	Alum Phosphate.....	3726
Ideal.....	10.70	0.60	11.3	" " .....	3727
Magic.....	11.40	0.50	14.9	Acid Phosphate.....	3728
Cardinal.....	13.90	0.50	14.4	Alum.....	3730
Magic.....	14.50	0.60	15.1	Acid Phosphate...	3731
" .....	13.20	0.70	13.9	" " .....	3736
Oriental.....	14.30	0.80	15.1	Alum.....	3737
Magic.....	12.50	0.70	13.2	Acid Phosphate.....	3740
Connaught.....	12.80	0.90	13.7	Alum " .....	3743
Strouds.....	13.30	0.90	14.2	Acid " .....	3744

6 GEORGE V, A. 1916  
BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF QUEBEC PROVINCE—

1914.							
Nov.	2	Poudre à Pâte..	207 W. C. Forgette, Ste Agathe, des Monts.	3 pkgs	30	W. D. McLaren..	.....
"	2	" ..	208 A. Leduc, Ste Agathe, des Monts.	3 "	30	.....	.....
"	11	" ..	221 Pierre Simard, St. Jerome.	3 "	30	Coleman B. P. Co., Brockville.	.....
"	11	" ..	222 Joseph Leferre, St. Jerome.	3 "	15	.....	Hudon & Orsali,
"	11	" ..	225 J. N. Desjarjins, St. Jerome.	3 "	15	.....	J. V. Boudrias, 223 Notre Dame E., Montreal.
"	26	" ..	239 J. B. Leferre, Ste Therese de Blainville.	3 "	15	.....	Ocean Mills, Montreal.
"	26	" ..	246 P. E. Desjardins, Ste. Therese de Blainville.	3 "	15	.....	L. Chaput & Fils, Montreal.
"	26	" ..	247 A. Delormes, St. Therese de Blainville.	3 "	30	.....	" .....

## DISTRICT OF QUEBEC PROVINCE—

Oct.	27	Poudre à Pâte.	2576 Jos. Langlois, Armagh.....	3 pkgs	36	Victor B. P. Mills, Montreal.	.....
"	27	"	2577 Jos. Langlois, Armagh. ...	3 "	36	F. F. Dalley Co., Hamilton.	.....
"	27	"	2578 Mastai Boulanger, Armagh.	3 "	36	.....	Quebec Preserv ing.
"	27	"	2580 Cleophas Beaudoin, Armagh	3 "	36	Quebec Preserving.	.....
"	27	"	2581 Cleophas Beaudoin, Armagh	3 "	54	E. W. Gillett Co., Ltd., Toronto.	.....
"	27	"	2584 Arthur Tradette, Armagh..	3 "	54	" .....	.....
"	27	"	2585 Arthur Tradette, Armagh..	3 "	36	F. F. Dalley, Co., Hamilton.	.....
"	29	"	2589 Antoine Labrecque, Ste. Raphael.	3 "	45	The Hygiene B. P. Co.	.....
"	29	"	2590 Frs. Ant. Labrecque, Ste. Raphael.	3 "	60	E. W. Gillett Co., Ltd., Toronto.	.....
"	29	"	2591 J. A. Lemieux, St. Michel..	3 "	60	John Baker Edwards, Montreal.	.....

## DISTRICT OF THREE RIVERS—

Oct.	30	Poudre à Pâte.	2643 Arthur Caisse, Berthierville	3 pkgs	75	Coleman B. P. Co., Brockville.	.....
"	30	"	2686 H. Daviault, Berthierville..	3 "	45	Snowden, Forbes Montreal.	.....
"	26	"	2688 I. W. Lacaise, L'Assomption	3 "	15	.....	Chevalier & Pouloir, Joliette.
"	28	"	2689 Archibald Duff, Charlemaigne.	3 "	45	Matthewson & Sons, Co., Ltd., Montreal.	.....

## SESSIONAL PAPER No. 14

## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion.)	Result of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Carbon Dioxide.					Character of Powder.
	Available	Residual	Total.			

## N. CADIEUX, INSPECTOR.

	p. c.	p. c.	p. c.		
Cook's Friend . . . . .	8.00	0.60	8.6	Acid Phosphate.....	207
Princess.....	13.20	0.20	13.4	Alum. " . . . . .	208
Coleman's Special.....	10.20	1.20	11.4	" " . . . . .	221
Gem.....	10.50	0.40	10.9	" " . . . . .	222
White Rose . . . . .	10.30	0.10	10.4	" " . . . . .	225
Ocean.....	8.60	3.85	12.45	" " . . . . .	239
Perfection.....	12.40	0.25	12.65	" " . . . . .	246
Auto.....	6.95	6.00	12.95	" " . . . . .	247

## O. BROCHU, TEMPORARY INSPECTOR.

	p. c.	p. c.	p. c.		
Connaught.....	14.20	0.30	14.50	Alum. . . . .	2576
Kitchen Queen.....	11.80	0.20	12.0	" . . . . .	2577
Special.....	10.50	1.60	12.10	" . . . . .	2578
Oriental.....	13.85	0.25	14.10	" . . . . .	2580
Magic.....	11.90	0.50	12.40	Phosphate.....	2581
Magic . . . . .	13.40	0.25	13.65	" . . . . .	2584
Kitchen Queen . . . . .	12.20	0.20	12.40	Alum. . . . .	2585
Citadel.....	15.70	0.55	16.25	" . . . . .	2589
Magic.....	12.45	0.25	12.70	Phosphate.....	2590
Favorite.....	12.30	0.15	12.45	Alum. Phosphate.....	2591

## DR. V. P. LAVALLEE, INSPECTOR.

	p. c.	p. c.	p. c.		
Coleman's Special . . . . .	11.70	0.70	12.40	Alum. Phosphate... .	2643
Bee.....	5.55	0.70	6.25	Phosphate.....	2686
Congo.....	11.00	0.10	11.10	Alum.....	2688
Quaker.....	7.75	1.35	9.10	Phosphate.....	2689

6 GEORGE V, A. 1916

BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF THREE RIVERS—

1914.							
Oct. 28	Poudre à Pâte.	2691	Euclide Beauchamp, St. Paul, L'Ermite.	3 pkgs	15	.....	Hudon Orsali, Montreal.
" 28	"	2692	M. L-beau, Charlemagne...	3 "	45	E. W. Gillett Co., Toronto.	.....
" 28	"	2693	Edm. Robillard, St. Paul L'Ermite.	3 "	15	.....	Chaput & Fils, Montreal.
" 29	"	2694	O. Carignan Fils, Three Rivers.	3 "	30	E. W. Gillett Co., Toronto.	.....
" 31	"	2695	Joseph Fernet, Fernetville..	3 "	30	.....	Chevalier Pouloit, Joliette.
" 31	"	3901	Louis Brissette, Fernetville.	3 "	60	E. W. Gillett Co., Ltd., Toronto.	.....

## DISTRICT OF VALLEYFIELD AND ST. HYACINTHE—

Oct. 29	Baking Powder.	63001	Edouard Cournoyer, St. Simon St., St. Hyacinthe.	3 tins.	45	J. V. Boudrias, Montreal.	.....
" 29	"	63002	" " " "	3 "	30	Coleman B. P. Co., Brockville.	.....
" 29	"	63003	Lassonde & Frère, Cascade St., St. Hyacinthe.	3 "	15	Ocean Mills, Montreal.	.....
" 29	"	63004	" " " "	3 "	30	.....	.....
" 29	"	63005	F. X. Leblanc, Lafromboise St., St. Hyacinthe.	3 "	15	F. F. Dally Co. ....	.....
" 30	"	63006	E. E. Biron, Bridge St., Sherbrooke.	3 "	30	Snowdon Forbes Co., Montreal.	.....
" 30	"	63007	" " " "	3 "	45	.....	.....
" 30	"	63008	Herbert Fortier, Bridge St., Sherbrooke.	3 "	45	F. F. Dally & Co. ....	.....
" 30	"	63009	Thériault & Leclerc, King St., Sherbrooke.	3 "	30	E. W. Gillett Co., Ltd.	.....
" 30	"	64010	" " " "	3 "	30	Pure Gold Mfg. Co.	.....
Nov. 4	"	62821	Alfred Ladouceur, Hawkesbury.	3 "	15	.....	.....
" 4	"	62822	" " " "	3 "	30	F. J. Picard Co., Montreal.	.....
" 4	"	62823	John Lecour, Hawkesbury.	3 "	30	E. H. Ewings & Sons.	.....
" 17	"	62824	Tourrangeau & Champagne, Buckingham.	3 "	15	S. J. Major, Ltd., Ottawa.	.....
" 17	"	62825	" " " "	3 "	45	Royal B. P. Co. ....	.....
" 17	"	62826	W. J. Martin, Buckingham.	3 "	30	F. F. Dalley Co., Ltd.	.....
" 17	"	62827	W. Bertrand, Buckingham.	3 "	30	Coleman B. P. Co. ....	.....
" 17	"	62828	Lahaie Sons, Buckingham..	3 "	30	F. F. Dalley Co., Ltd.	.....
" 17	"	62829	H. Mantha, Buckingham...	3 "	30	Litsters Pure Food Co.	.....
" 18	"	62830	Vallee & Mountambault, St. John's P.Q.	3 "	60	J. J. Duffy & Co., Montreal.	.....

## SESSIONAL PAPER No. 14

## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.		
	Available	Residual.	Total.			

*Concluded.*

	p. c.	p. c.	p. c.		
Gem .....	7.95	1.15	9.10	Alum Phosphate .....	2691
Magic ..	4.05	2.50	6.55	Acid Phosphate....	2692
Cook's Friend.....	4.25	2.10	6.35	Phosphate.....	2693
Magic.....	11.90	0.10	12.00	Phosphate.....	2694
Congo .....	11.80	0.70	12.50	Alum.....	2697
Magic.....	12.15	1.05	13.20	Phosphate .....	3901

J. J. COSTIGAN, ACTING INSPECTOR.

White Rose Brand .....	12.00	0.80	12.80	Alum Phosphate.....	63001
Coleman's Special ..	11.75	1.50	13.25	" .....	63002
Ocean ..	11.90	1.50	13.40	" .....	63003
Perfection .....	10.85	2.73	13.58	" .....	63004
Kitchen Queen. ..	10.85	0.60	11.45	Alum (sulphate).....	63005
Bee.....	4.50	2.61	7.11	Phosphate .....	63006
Put up specially for vendor, E.E.B.	9.95	4.15	14.10	Alum .....	63007
Put up specially for vendor.	12.40	0.30	12.70	" .....	63008
Magic.....	10.95	0.10	11.05	Phosphate.....	63009
Cook's Choice.....	10.60	0.90	11.50	Alum Phosphate.....	63010
Standard Brand.....	8.20	1.25	9.45	Alum .....	62821
Cook's Pride.....	11.70	0.10	11.80	" .....	62822
Star.....	10.12	1.25	11.37	Alum Phosphate .....	62823
Reina .....	12.20	0.25	12.45	" Tartrate .....	62824
Royal .....	11.65	0.50	12.15	Cream of Tartar ..	62825
Kitchen Queen.....	10.75	0.00	10.75	Alum.....	62826
Coleman's Special.....	12.80	1.00	13.80	Alum Phosphate.....	62827
Kitchen Queen.....	10.95	1.37	12.32	" Tartrate.....	62828
Pure Food.....	9.90	1.90	11.80	" .....	62829
Cook's Favorite .....	13.20	1.20	14.40	" Phosphate.....	62830

6 GEORGE V, A. 1916

BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher

## DISTRICT OF MONTREAL—

1914.							
Nov. 24	Baking Powder.	62565	Beaudoin & Couture, 497 LaSalle Rd., Verdun.	3 pkgs	30	W. D. McLaren, Ltd., Montreal.	
" 24	" ..	62566	I. Riendeau, 509 LaSalle Rd., Verdun.	3 "	30	E. W. Gillett Co. Ltd.	
" 24	" ..	62567	J. G. Parent, 381 LaSalle Rd., Verdun.	3 "	30	Royal B. P. Co., New York.	
" 24	" ..	62568	O. Trudeau, 1394 Wellington St., Verdun.	3 "	30	National Drug & Chem. Co.	
" 24	" ..	62569	" " " "	3 "	30	Ocean Mills, Montreal.	
" 24	" ..	62570	R. J. Milne, 1453 Wellington St., Verdun.	3 "	15	Herron LeBlanc, Montreal.	
" 25	" ..	62571	E. Menard, 169 Galt St., Verdun.	3 "	30	A. W. Hugman, Ltd., Montreal.	
" 26	" ..	62572	G. H. Langevin, 414 St. Lawrence Boul. Montreal.	3 "	60	Diamond Starch Co., Montreal.	
" 26	" ..	62573	L. Rosenberg, 21 Demontigny St., East, Montreal.	3 "	15	P. Adelstein, Montreal.	
" 26	" ..	62574	J. Lewis, 181 Demontigny St., East, Montreal.	3 "	30	J. J. Duffy, Montreal.	

## DISTRICT OF OTTAWA—

Oct. 23	Baking Powder.	63501	A. Roy, Maniwaki.....	3 Cans	25	H. F. Pacaud & Co., Montreal.	
" 23	" ..	63502	Cavanagh Bros., River Desert.	3 "	45	The J. J. Fanning Co., Ottawa.	
" 24	" ..	63503	The Anderson Langstaff Co. Ltd., Kemptville.	3 "	75	White Swan Spices & Cereals Ltd., Toronto.	
" 27	" ..	63504	Joseph Martel & Co., Hull.	3 "	50	National Drug & Chem. Co. Montreal.	
" 31	" ..	63505	H. Q. Coolidge, Smiths Falls.	3 "	45	The F. F. Dalley Co. Ltd., Hamilton.	
" 31	" ..	63506	" " " "	3 "	30	Coleman B. P. Co. Brockville.	
Nov. 5	" ..	63507	Lemay & Chapman. Hull.	3 "	30	Boston B. P. Co., Boston, Mass.	C. H. Cochrane, Ottawa.
" 5	" ..	63508	Wm. Sarazin, Hull.....	3 "	30	Hamilton Coffee & Spice Co., Ltd., Hamilton.	
" 6	" ..	63509	McDonald Bros., Gladstone Ave., Ottawa.	3 "	30	W. D. McLaren, Ltd., Montreal.	H. N. Bate & Ottawa.
" 6	" ..	63510	B. Pallach, Bank Street, Ottawa.	3 "	30	E. W. Gillett, Co. Ltd., Toronto.	



## SESSIONAL PAPER No. 14

## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion).	Result of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Carbon Dioxide.					Character of Powder.
	Available	Residual.	Total.			

## D. J. KEARNEY, INSPECTOR.

	p. c.	p. c.	p. c.		
Cook's Friend.....	8.60	1.15	9.75	Acid Phosphate.....	62565
Magic.....	12.30	0.20	12.50	" ".....	62566
Royal.....	12.30	0.85	13.15	Cream of Tartar.....	62567
St. George's.....	8.10	1.10	9.20	" ".....	62568
Ocean.....	8.00	3.35	11.35	Alum Phosphate.....	62569
New York.....	11.75	1.15	12.90	".....	63270
Red Rose.....	6.00	1.10	7.10	Cream of Tartar.....	62571
Diamond.....	7.35	3.60	10.95	Alum (tr. Phos.).....	62572
King.....	6.50	6.45	12.95	" Phosphate.....	62573
Cook's Favourite.....	10.15	2.15	12.30	" ".....	62574

## J. A. RICKEY, INSPECTOR.

Cook's Pride.....	10.65	0.40	11.05	Alum.....	63501
Purity.....	14.50	0.20	14.70	".....	63502
Pepsin.....	10.60	0.35	10.95	" Phosphate.....	63503
St. George's.....	8.70	0.90	9.60	Cream of Tartar.....	63504
English Cream.....	10.15	0.30	10.45	Alum (tr. Phos.).....	63505
Coleman's Special.....	10.15	0.90	11.05	" Phosphate.....	63506
Boston.....	11.80	1.60	13.40	".....	63507
Ocean Wave.....	13.50	1.45	14.95	" Phosphate.....	63508
Cook's Friend.....	8.55	0.25	8.80	Acid ".....	63509
Magic.....	10.38	0.52	10.90	Phosphate.....	63510

6 GEORGE V, A. 1916  
BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF KINGSTON—

1914.							
Oct. 28	Baking Powder.	61580	J. Lemmon, Kingston.....	3 tins.	75	E. W. Gillett, Toronto.	.....
Nov. 2	" "	61581	H. W. Kelly, Napanee.....	3 "	45	"	.....
" 2	" "	61582	John Paisley, " .....	3 "	30	Egg-O B. P. Co...	.....
" 2	" "	61583	F. H. Perry, " .....	3 "	45	Royal B. P. Co...	.....
" 2	" "	61584	G. W. Bayes, " .....	3 "	45	Maple Leaf B. P. Co.	.....
" 2	" "	61585	W. H. Milling, " .....	3 "	25	Forest City B. P. Co.	.....
" 2	" "	61586	S. R. Artis, Belleville....	3 "	30	F. F. Dalley, Hamilton.	.....
" 2	" "	61587	R. Elvins, " .....	3 "	45	Egg-O B. P. Co...	.....
" 2	" "	61588	M. C. Nichols, Cobourg....	3 "	30	Eby-Blain, Toronto	.....
" 2	" "	61589	The Thompson-Macdonald, Cobourg.	3 "	45	Vendors.....	.....

## DISTRICT OF TORONTO—

Nov. 16	Baking Powder.	64588	T. H. Brown, Collingwood.	3 cans.	45	Young-Winfield Co. Ltd., Hamilton.	.....
" 16	" "	64589	Prentice & Sproule, " .....	3 "	45	McLarens Ltd., Hamilton.	.....
" 17	" "	64590	E. A. Sibbold, Barrie ....	3 "	45	F. F. Dalley Co. Ltd., Hamilton.	.....
" 18	" "	64591	R. & A. Dyson, Penetang..	3 "	30	.....	W. H. Gillard & Co., Hamilton.
" 18	" "	64592	D. A. Lahey & Co., " .....	3 "	30	.....	Unknown .....
" 19	" "	64593	H. J. Kettle & Co., Midland	3 "	30	.....	W. H. Gillard & Co., Hamilton.
" 20	" "	64594	Sinclair & Co., Orillia.....	3 "	45	.....	Unknown .....
" 21	" "	64595	E. J. Bunson, Barrie.....	3 "	45	Pure Gold Co. Ltd. Toronto.	.....
" 24	" "	64596	J. A. Sweet, 481 Queen st. E., Toronto.	3 "	39	Dominion B. P. Co., Toronto.	.....
" 27	" "	64597	J. Cake, 1210 Dufferin st., Toronto.	3 "	30	R. B. Hayhoe & Co., Toronto.	.....

## DISTRICT OF HAMILTON—

Nov. 2	Baking Powder.	64597	J. R. Horens, Orangeville..	3 cans.	30	Litster Pure Food Co., Toronto.	.....
" 3	" "	64528	A. W. McFaul, 912 2nd Ave. East, Owen Sound.	3 "	45	.....	Eby, Blain Ltd., Toronto.
" 3	" "	64529	John McQuaker, 834 2nd Ave. East, Owen Sound.	3 "	45	Todhunter, Mitchell & Co., Toronto.	.....

## SESSIONAL PAPER No. 14

## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst	
	Carbon Dioxide.					Character of Powder.
	Available	Residual.	Total.			

## JAMES HOGAN, INSPECTOR.

	p. c.	p. c.	p. c.		
Magic .....	12.10	0.65	12.75	Phosphate .....	61580
" .....	11.60	0.55	12.15	" .....	61581
Egg-O .....	11.00	0.45	11.45	Alum Phosphate .....	61582
Royal. ....	11.55	0.10	11.65	Cream of Tartar .....	61583
Maple Leaf .....	14.10	0.10	14.20	Acid Phosphate .....	61584
Forest City .....	9.30	0.35	9.65	Alum " .....	61585
English Cream .....	11.45	0.25	11.70	" .....	61586
Egg-O .....	10.60	0.90	11.50	" Phosphate .....	61587
Anchor .....	10.65	1.75	12.40	" " .....	61588
Rose .....	11.20	0.60	11.80	" " .....	61589

## H. J. DAGER, INSPECTOR.

Maple Leaf Brand .....	10.80	0.55	11.35	Alum Phosphate .....	64588
Maple Leaf. ....	11.15	0.10	11.25	" .....	64589
Kitchen Queen .....	12.00	0.35	12.35	" .....	64590
Rose .....	15.25	0.90	16.15	" Phosphate .....	64591
Lahey's .....	12.50	0.30	12.80	" .....	64592
Rose .....	10.30	1.25	11.55	" Phosphate .....	64593
Sinclair's .....	10.85	0.95	11.80	" " .....	64594
Our 1900 Daisy .....	11.80	0.70	12.50	" " .....	64595
Daisy .....	12.00	0.70	12.70	" " .....	64596
Hayhoe's .....	10.70	0.30	11.00	" " .....	64597

## H. J. DAGER, ACTING INSPECTOR.

Cook's Favorite .....	11.25	1.30	12.55	Alum Phosphate .....	64527
Rose .....	13.15	0.20	13.35	" .....	64528
Maple Leaf .....	11.60	0.45	12.05	" .....	64529

6 GEORGE V, A. 1916

BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF HAMILTON—

1914.							
Nov.	3	Baking Powder.	64530 McClarty Bros., 812 8th St., Owen Sound.	3 cans	45	F. F. Dalley Co., Ltd., Hamilton.	.....
"	4	"	64531 Hunter & Trout, Wiarton.	3 "	38	" "	.....
"	4	"	64532 James Mathieson, Wiarton.	3 "	30	I. X. L. Spice and Coffee Mills, London.	.....
"	6	"	64533 L. Klemmer, Hanover.	3 "	45	C. M. Smith & Co., London.	.....
"	6	"	64534 J. H. Appel, Walkerton.	3 "	30	Gorman, Echert Co., London.	.....
"	10	"	64535 The Arcade Ltd., 51 James St. North, Hamilton.	3 "	45	Borde & Co., Hamilton.	.....
"	10	"	64557 P. H. Gage, 331 King St East, Hamilton.	3 "	45	.....	W. H. Gillard & Co., Hamilton.

## DISTRICT OF WINDSOR—

Nov.	3	Baking Powder.	63934 A. A. Rapson, Woodstock.	3 pkgs	45	E. W. Gillett Co., Toronto.	.....
"	3	"	63939 Lewes & Son, Woodstock.	3 "	30	White Swan Spice and Cereals, Toronto.	.....
"	4	"	63943 Mrs. E. Gibson, Tilsonburg.	3 "	30	Gorman, Echert Co., London.	.....
"	4	"	63945 R. M. Teall, Tilsonburg.	3 "	60	Royal B. P. Co., New York.	.....
"	4	"	63947 H. M. Scott, Tilsonburg.	3 "	30	Eggo B. P. Co., Hamilton.	.....
"	4	"	63949 J. A. Trestain, Tilsonburg.	3 "	30	Gorman, Echert Co., London.	.....
"	4	"	63950 F. H. Simpkins, Tilsonburg.	3 "	45	.....	Unknown
"	5	"	63957 R. Edwards, Simcoe.	3 "	30	.....	E. Adams & Co., London.
"	5	"	63959 O. R. Hausalman, Simcoe.	3 "	30	Young, Winfield Ltd., Hamilton.	.....
"	5	"	63963 L. F. Aiken, Simcoe.	3 "	30	Hamilton Coffee and Spice Co., Hamilton.	.....

## DISTRICT OF MANITOBA—

Nov.	3	Baking Powder.	61216 Wm. Muir, Grocer, Brandon.	3 pkgs	75	Hamilton Coffee & Spice Co., Hamilton.	.....
"	3	"	61217 J. Bower & Co., Grocer, Brandon.	3 "	75	The Dyson Co., Winnipeg.	.....
"	10	"	61218 A. F. Higgins & Co., Carman.	3 "	60	The White Star Mfg. Co., Winnipeg.	.....
"	10	"	61219 H. Hastie, Carman.	3 "	40	.....	The Codville Co., Winnipeg.
"	12	"	61220 Galloway Bros., Ltd., Gladstone.	3 "	75	E. W. Gillett Co., Ltd., Toronto.	.....

## SESSIONAL PAPER No. 14

## BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Carbon Dioxide.					Character of Powder.
	Available	Residual.	Total.			

*Concluded.*

	p. c.	p. c.	p. c.		
Kitchen Cream.....	10·10	0·35	10·45	Alum .....	64530
Lily White .....	12·35	0·45	12·80	" .....	64531
Sweetheart .....	10·05	0·25	10·30	" Phosphate.....	64532
Klemmer's.....	14·05	0·70	14·75	" .....	64533
Snow Flake .....	13·75	0·50	14·25	" .....	64534
Wheat Sheaf .....	13·00	1·25	14·25	" .....	64535
Poppy .....	13·35	0·40	13·75	" .....	64537

## JOHN TALBOT, INSPECTOR.

Magic.....	12·50	0·10	12·60	Acid Phosphate .....	63934
White Swan .....	11·99	1·85	13·75	" .....	63935
Forest City .....	13·15	0·70	13·85	Alum .....	63943
Royal.....	12·00	0·40	12·40	Cream of Tartar .....	63945
Eggo .....	11·85	0·60	12·45	Alum Phosphate.....	63947
Forest City.....	11·70	1·15	12·85	" .....	63949
Maple Leaf .....	15·80	0·70	16·50	" .....	63950
Fan .....	13·30	0·60	13·90	" .....	63957
Mothers' Choice .....	9·80	1·55	11·35	" .....	63959
Ocean Wave .....	11·80	1·60	13·40	" .....	63963

## A. C. LARIVIERE, INSPECTOR.

Ocean Wave .....	11·20	2·10	13·30	Alum. phosphate.....	61216
Red Cross.....	11·30	1·40	12·70	" .....	61217
White Star .....	11·10	0·50	11·60	" .....	61218
People's .....	10·50	0·80	11·30	" .....	61219
Magic .....	13·70	0·20	13·90	Acid phosphate .....	61220

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BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF MANITOBA—

1914.							
Nov. 12	Baking Powder	61221	R. E. Broadfoot, Gladstone.	3 pkgs	60	.....	The Gold Standard Mfg. Co., Winnipeg.
" 16	"	61222	Simpkin's Grocery, St. James, Winnipeg.	3 "	30	Blue Ribbon, Ltd., Winnipeg.	.....
" 16	"	61223	Berney & Chapman, St. James, Winnipeg.	3 "	30	McLaren, Ltd., Hamilton.	.....
" 16	"	61224	" " "	3 "	30	E. W. Gillett & Co., Toronto.	.....
" 17	"	61225	B. Dalman, Selkirk.....	3 "	30	Eggo, B. P. Co., Hamilton.	.....

## DISTRICT OF SASKATCHEWAN—

Oct. 27	Baking Powder	64048	S. B. Yessa, Regina... ..	3 pkgs	45	Campbell Bros., Wilson, Ltd., Winnipeg.	Mfrs.....
" 27	"	64050	Bergl & Kusch, Regina....	3 "	45	Eggo B. P. Co., Hamilton.	Unknown .....
" 28	"	64051	G. R. Russell, Prince Albert	3 "	60	Gold Standard Mfg. Co., Winnipeg.	Codville Co.....
" 28	"	64052	The McLeod Co., Ltd., Prince Albert	3 "	75	Blue Ribbon Co., Ltd., Winnipeg.	Mfrs... ..
" 28	"	64053	Cameron & Heap, Ltd., Prince Albert.	3 "	40	Imperial Cocoa & Spice Co., Hamilton.	" .....
" 29	"	64059	J. F. Cairns, Saskatoon...	3 "	75	.....	James Turner, Hamilton.
" 29	"	64060	Woodside's, Ltd., Saskatoon.	3 "	75	E. W. Gillett, Ltd., Toronto.	A. McDonald Co., Saskatoon.
" 29	"	64061	F. R. McMillan, Saskatoon.	3 "	75	.....	Balfour Smye Co., Hamilton
" 30	"	64062	Saskatoon Trading Co, Saskatoon.	3 "	75	.....	The Dyson Co., Winnipeg.
Nov. 3	"	64063	W. H. Birt, Pense .....	3 "	75	The Dyson Co., Winnipeg.	" "

## DISTRICT OF ALBERTA—

Nov. 18	Baking Powder.	52054	Wollard's Grocery, Calgary.	3 Bx's	45	Blue Ribbon, Ltd., Winnipeg.	.....
" 18	" ..	52055	S. J. Freeze " "	3 "	75	F. F. Dalley Co., Hamilton.	.....
" 19	" ..	52056	G. I. Wood " "	3 "	75	Mason & Hickey, Winnipeg.	.....
" 23	" ..	52057	Sharpe & Page, Stettler...	3 "	60	E. W. Gillett Ltd., Winnipeg.	.....
" 24	" ..	52058	Pride, Nash & Co. " .....	3 Tins	75	" "	.....
" 25	" ..	52059	R. B. Price, Camrose ...	3 "	75	Eggo B. P. Co., Hamilton.	.....

## SESSIONAL PAPER No. 14

## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Carbon Dioxide.					Character of Powder.
	Available	Residual	Total.			

*Concluded.*

	p.c.	p.c.	p.c.		
Broadfoot's .....	12·90	0·70	13·60	Alum phosphate.....	61221
Blue Ribbon.....	11·30	0·60	11·90	" .....	61222
Invincible.....	13·30	0·35	13·65	Phosphate .....	61223
Magic .....	13·20	0·40	13·60	" .....	61224
Egg-O .....	12·75	0·15	12·90	Alum phosphate..	61225

L. H. HALL, INSPECTOR.

Royal Shield.....	11·30	1·20	12·50	Alum phosphate.....	64048
Egg-O .....	12·20	0·75	12·95	" .....	64050
Gold Standard.....	12·90	1·00	13·90	" .....	64051
Blue Ribbon .....	11·50	0·50	12·00	" .....	64052
Triam .....	13·90	0·80	14·70	" .....	64053
Moss Rose .....	13·35	1·10	14·45	" .....	64059
Magic .....	13·10	0·30	13·40	Acid phosphate.....	64060
Our Own Special. ....	16·10	0·60	16·70	Alum phosphate.....	64061
No brand given .....	11·95	2·00	13·95	" .....	64062
Red Cross.....	12·40	1·10	13·50	" .....	64063

A. W. R. MARKLEY, INSPECTOR.

Blue Ribbon. ....	11·45	1·40	12·85	Alum Phosphate.....	52054
Kitchen Queen.....	12·00	0·60	12·60	" .....	52055
Golden West. ....	12·00	0·80	12·80	" Phosphate.....	52056
Magic.....	13·10	0·30	13·40	Acid " .....	52057
" .....	13·20	0·75	13·95	" " .....	52058
Egg-O. ....	11·50	1·45	12·95	Alum " .....	52059

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BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ALBERTA—

1914.							
Nov. 25	Baking Powder.	52060	Younge Bros., Camrose . . .	3 Tins	45	Georgeson & Co., Ltd., Calgary.	
" 26	" ..	52061	Montgomery Bros., Wetaskiwin	3 "	1.20	Price B. P. Co., Chicago.	
" 26	" ..	52062	Fowler & Co " ..	3 "	75	Alta. Empress Co., Ltd., Calgary.	
" 27	" ..	52063	A. M. Campbell, Lacombe.	3 "	60	Blue Ribbon, Ltd., Winnipeg.	

## DISTRICT OF ROCKY MOUNTAINS—

Nov. 10	Baking Powder.	61706	Trail Grocery Co., Trail . . .	3 Tins	1.35	Price B. P. Co., Chicago.	
" 10	"	61707	" " " " . . .	3 "	75	Eggö B. P. Co., Hamilton.	
" 10	"	61708	" " " " . . .	3 "	75	E. W. Gillett Co., Toronto.	
" 10	"	61712	Co-operativa Italiana Assoc., Trail.	3 "	1.05	Maybell & Co., Toronto.	
" 20	"	61722	Armstrong Departmental Store, Merritt.	3 "	75	Kelly Douglas Co., Vancouver.	
" 20	"	61715	Merritt & District Indust. Co-op. Socy., Merritt	3 "	60	F. F. Dalley, Co., Hamilton.	
" 23	"	61730	Hudson's Bay Co., Kamloops.	3 "	1.20	A. Schilling & Co., San Francisco.	
" 23	"	61731	R. McCall, Kamloops . . .	3 "	75	W. A. Jamieson Coffee Co., Victoria.	
" 23	"	61732	R. McCall, " . . .	3 "	75	J. A. Folger & Co., San Francisco.	
" 23	"	61733	R. McCall, " . . .	3 "	75	White Swan Mills, Toronto.	

## DISTRICT OF VANCOUVER—

Oct. 27	Baking Powder.	55116	Peter Torrance, Keefer st. and Campbell ave., Vancouver.	3 tins.	60	Price B. P. Co., Chicago.	
" 27	" ..	55117	J. P. Sinclair, Commercial Drive and 14th ave., Vancouver.	3 "	75	Egg O. P. B. Co., Ltd., Hamilton.	
" 27	" ..	55118	Fenyn's Grocery, 1955 Commercial Drive, Vancouver.	3 "	60	Royal B. P. Co., New York.	
" 27	" ..	55119	The Cash Grocery, 1923 Commercial Drive, Vancouver.	3 "	60	E. W. Gillett Co., Ltd., Toronto.	
" 28	" ..	55120	F. Lyons 1609 Commercial Drive, Vancouver.	3 "	45	Empress Mig. Co., Vancouver.	
" 28	" ..	55121	Swindell Bros., 1417 Commercial Drive, Vancouver.	3 "	1.20	A. Schilling & Co., San Francisco.	



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## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Carbon Dioxide.					Character of Powder.
	Available	Residual.	Total.			

*Concluded.*

	p. c.	p. c.	p. c.			
Maple Leaf.....	12·80	0·60	13·40	Acid Phosphate.....	52060	
Price's.....	12·20	0·35	12·55	Cream of Tartar.....	52061	
Alberta's Best.....	11·00	0·70	11·70	Alum Phosphate.....	52062	
Blue Ribbon.....	10·05	2·35	12·40	" ".....	52063	

THOS. PARKER, INSPECTOR.

Dr. Price's.....	11·40	0·30	11·70	Cream of Tartar.....	61706	
Egg-O.....	11·70	0·20	11·90	Alum Phosphate.....	61707	
Magic.....	12·80	0·30	13·10	Acid ".....	61708	
Art.....	10·90	0·10	11·00	Alum ".....	61712	
Nabob.....	10·05	3·25	13·30	" ".....	61722	
Maple Leaf.....	10·10	0·35	10·45	".....	61715	
Schilling's Best.....	13·65	0·95	14·60	Cream of Tartar.....	61730	
Feather Light.....	8·35	3·75	12·10	Alum Phosphate.....	61731	
Golden Gate.....	11·35	0·75	12·10	Cream of Tartar.....	61732	
Queen's Favorite.....	9·15	2·45	11·60	Alum.....	61733	

E. J. MORGAN, INSPECTOR.

Dr. Price's Cream.....	12·30	0·25	12·55	Cream of Tartar.....	55116	
Eggo.....	11·80	0·15	11·95	Alum Phosphate.....	55117	
Royal.....	11·25	0·20	11·45	Cream of Tartar.....	55118	
Magic.....	14·30	0·20	14·50	Acid Phosphate.....	55119	
Empress.....	12·30	1·75	14·05	Alum ".....	55120	
Schilling's.....	13·10	0·20	13·30	Cream of Tartar.....	55121	

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BULLETIN No. 308—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF VANCOUVER—

1914.							
Oct. 29	Baking Powder.	55122	T. W. Turner, 890 Pender st. w., Vancouver.	3 tins.	60	Kelly Douglas Co., Vancouver.	.....
" 29	" ..	55123	" " ..	3 "	45	White Star Mfg. Co., Winnipeg.	.....
" 29	" ..	55124	London Grocery Co., Ltd., 1050 Granville st., Vancouver.	3 jars.	45	F. F. Dalley Co., Ltd., Hamilton.	.....
" 29	" ..	55125	David Spencer, Ltd., Vancouver.	3 tins.	75	Egg O. B. P. Co., Hamilton.	.....

## DISTRICT OF VICTORIA—

Nov. 5	Baking Powder.	62004	The Windsor Grocery Co., 817 Government st., Victoria.	3 tins.	75	W. A. Jamieson Coffee Co., Victoria.	.....
" 6	" ..	62006	The West End Grocery Co., 1002 Government st., Victoria.	3 "	75	E. W. Gillett Co., Toronto.	.....
" 9	" ..	62015	Copas & Young, Cor. Fort and Broad st., Victoria.	3 "	60	Royal B. P. Co., New York.	.....
" 9	" ..	62016	" " ..	3 "	60	Price B. P. Co., Chicago.	.....
" 10	" ..	62017	Dixi H. Ross, 1317 Government st., Victoria.	3 "	75	Egg O. B. P. Co., Regina.	.....
" 11	" ..	62021	Acton Bros., 1317 Douglas st., Victoria.	3 "	60	Pioneer Coffee & Spice Mills, Victoria.	.....
" 11	" ..	62025	H. O. Kirkham Co., Ltd., 741 Fort st., Victoria.	3 "	75	Empress Mfg. Co., Vancouver.	.....
" 11	" ..	62026	" " ..	3 "	1.35	Royal B. P. Co., New York.	.....
" 13	" ..	62029	Scott & Peden, Cor. Store and Cormorant st., Victoria.	3 "	1.05	Price B. P. Co., Chicago.	.....
" 23	" ..	62030	Simon Leiser & Co., Ltd., 524 Yates st., Victoria.	3 "	40	White Star Mfg. Co., Winnipeg.	.....

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## BAKING POWDER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Carbon Dioxide.		Character of Powder.		
	Available	Residual.			
	Total.				

*Concluded.*

	p. c.	p. c.	p. c.		
Nabob. ....	11.35	1.35	12.70	Alum Phosphate .....	55122
White Star. ....	6.90	2.35	9.25	" .....	55123
English Cream. ....	11.95	0.05	12.00	Alum .....	55124
Manufactured for vendor and labelled "Spencer's Baking Powder."	11.00	0.60	11.60	Alum Phosphate. ....	55125

D. O'SULLIVAN, INSPECTOR.

Feather Light. ....	13.80	0.20	14.00	Alum Phosphate. ....	62004
Magic. ....	13.40	0.20	13.60	Acid " .....	62006
Royal. ....	9.75	1.35	11.10	Cream of Tartar. ....	62015
Price's. ....	11.95	1.35	12.30	" .....	62016
Eggo. ....	12.10	0.20	12.30	Alum Phosphate. ....	62017
Hygiene. ....	12.40	0.30	12.70	Acid " .....	62021
Empress. ....	10.90	1.80	12.70	Alum " .....	62025
Royal. ....	12.30	0.30	12.60	Cream of Tartar. ....	62026
Dr. Price's. ....	13.10	0.50	13.60	" .....	62029
White Star. ....	9.45	1.45	10.90	Alum Phosphate. ....	62030

## APPENDIX Y.

### BULLETIN No. 309—JAMS.

OTTAWA, March 26, 1915.

J. U. VINCENT, Esq.,  
Deputy Minister of Inland Revenue,

SIR,—The accompanying report deals with two hundred and twenty-seven (227) samples purchased as Jam by our inspectors in September, October and November of last year.

These samples are sold, for the most part, simply as Jam or Marmalade; but a considerable number are labelled "compounds" or "mixtures." This is the case with one hundred and three (103) of the samples now reported.

Some ambiguity attaches to the use of the words *Compound* or *Mixture* in the case of Jam. Section 24 of the Adulteration Act provides that adulteration cannot be charged "Where any articles of food not injurious to the health are mixed together as a compound, and sold or offered for sale as such, with each package, roll, parcel or vessel containing such articles distinctly labelled as a mixture in conspicuous characters forming an inseparable part of a general label bearing the name and address of the manufacturer."

This would apparently cover the case where sugar is in whole or part replaced by glucose; or where harmless dyes or preservatives are added to the jam.

By an Order in Council of 17th October, 1912 (published as Circular G. 1044) jam, or marmalade is defined as, "The sound product made from clean, sound, properly matured and prepared fresh fruit, or fruit pulp, and sugar, with or without spices or vinegar, by boiling to a semi-solid consistence; and conforms in name to the fruit used in its preparation."

There can be, of course, no reasonable objection to the use of two or more species of fruit in the preparation of jam; and a jam made from two or more sorts of fruit is recognized as legal, so long as the name under which such a jam is offered for sale distinctly announces the fact of compound character, as to the fruit used. Section 10 of the Order in Council above quoted, is as follows:—"When Jam, Marmalade, Fruit Butter or Jelly contains other fruit or fruit juice than that which gives its special name

## SESSIONAL PAPER No. 14

to the article, the fact of the presence of such other fruit shall be stated upon the label, in lettering as large and as distinct as that used in naming the fruit principally present. This requirement does not however apply to the use of fruit juice, up to the amount of ten (10) per cent of the weight of the jam, etc., used instead of water in the manufacture of the jam, etc."

This Department has been given to understand that, in the cooking of fruit, it is usual to add a certain proportion (not large) of water. The substitution of a fruit juice (sweet cider, fresh currant, etc., juice) for this water is incontestably an improvement and enhances the value of the jam. For this reason, the manufacturer is not required to declare such addition; but as a matter of business, he will naturally do so.

Certain other additions, or substitutions, in jam-making are not so generally looked upon with approval by the public. Thus, substitution of glucose (corn syrup) for sugar; or the addition of small amounts of saccharin or other sweetening substances, in order to economize sugar, are practices which only become legitimate when the fact is stated upon the label. Section 11 of the Order in Council above referred to, reads:—"When the sugar in preserve, jam, marmalade, fruit-butter or jelly is wholly or partially replaced by glucose or by any other substitute for sugar, the fact of such substitution shall be stated upon the label in plain lettering."

Later than the date of the above Order in Council, it came to the knowledge of the Department that advantage was being taken of permission given to manufacture jams from two or more kinds of fruit, on condition that both sorts of fruits should be named on the label. Apple pulp being so much cheaper than the pulp of strawberries, raspberries, currants, etc., jams made from apples and strawberries, apples and raspberries, and other combinations came upon the market; and inspection showed that, in many of these, the apple predominated to such an extent that it became necessary to add a colouring matter to the jam, if it was to have the appearance of raspberry, or strawberry—and even to add a synthetic (artificial) flavour, in order to give it something of the taste of the smaller fruit. Yet, these jams, although they might contain 80 or 90 per cent of their fruit as apple pulp were labelled in such a way as to claim the strawberry rather than the apple, as a basis

In order to put a stop to this species of sharp practice, amounting to fraud, an Order in Council was passed in August 1913, adding a twelfth section to the Order of October 1912, as follows: (Circular G. 1080.)

"When Jam, Jelly, Marmalade, etc., are prepared from two or more sorts of fruits, 'the first named fruit on the label shall be that which is present in largest amount: thus 'a jam made from Strawberries and Apples or Apple Pulp or Apple Jelly, shall be 'labelled as Strawberry and Apple Jam, only if the weight of Strawberries used exceeds 'the weight of Apples or Apple Pulp or Apple Jelly in the product; where the weight 'of Apples or Apple Pulp or Apple Jelly exceeds the weight of Strawberries used, the 'label shall read, 'Apple and Strawberry Jam' or 'Apple Jam flavoured with Straw-' berries or otherwise, in such a way as to make clear the fact that Strawberries are not 'the chief constituent."

The question has been raised: May an article of jam, containing more or less strawberries, raspberries, etc., but largely composed of apple pulp (or the other cheap fruit pulp) be sold as compound strawberry, or compound raspberry jam, under Section 24 (d) of the Act—without specific statement of the different fruits present, as required by Section 10 of the Order in Council of 17th October, 1912?

I am inclined to think that, as the Order in Council derives its authority from the Act (Sec. 26), it is reasonable to give priority of force to the requirements of the Act; although a final decision in this regard, can only emanate from the courts.

A jam may therefore be compound, either as containing other fruit than that which gives its name to the jam; or, as containing substitutes for sugar or the natural colouring matter of the fruit—the artificial colouring matters being, of course, of such a character as to be harmless to health.

*Colouring matters.*—An Order in Council of 9th January 1915 (published as Circular G. 1167) requires that—with certain specific exceptions, not inclusive of Jam the presence of artificial colouring matters must be declared upon the label, in easily, legible type. Here the question arises: Does the use of the word compound or mixture upon the label, constitute a declaration of the kind required?

It has been the practice of this Department to accept the employment of the word compound or mixture, as covering the presence of harmless colouring matters, as well as of permissible amounts of preservatives. These last are more especially defined by Order in Council of 4th April, 1914 (published as Circular G. 1111), and with exception of Common Salt, Sugar, Saltpetre, Wood Smoke, Vinegar, Acetic Acid, Spices and Alcohol, are required to be named upon the label, when they are present.

*Glucose.* (Corn Syrup.)—It is claimed by many manufacturers that the addition of small amounts of glucose (not exceeding 10 per cent) is actually an improvement in the manufacture of jams. If this be the case, the addition of a small amount of glucose to jam would be of similar nature to the addition of fruit juice used instead of water; a practice which is specifically permitted by Order in Council of 17th October, 1912. If the claim above referred to is established, it might be proper to permit the addition of glucose to jam, without statement of the fact, and within a specified limit, as to the amount. This is a matter to be further studied.

*Quantity of Fruit in Mixed Jams.*—Reference has already been made to Order in Council of 25th August, 1913, which requires that, in these jams, fruit which is present in largest amount shall give its name to the jam. The quantitative determination of fruits in admixture is often a matter of great difficulty. I have referred to this in Bulletin No. 119, p. 3. Fortunately the cases in which this determination has to be made, are essentially mixtures of apple with strawberries, raspberries or currants. In strawberries and raspberries the number of achenia found serve to fix, with tolerable exactness, the proportion of these fruits present; and the number of seeds in the currant serve the same purpose. It only remains to ascertain within what degree of accuracy the method is applicable to jams; and this will be investigated during the coming fruit season.

It is, however, very questionable whether the public is effectively informed as to the composition of a jam by the order of statement of its component fruits on the label. The designation *Strawberry and Apple Jam*, means that, of the total fruit used in manufacture of the jam strawberry predominates; while a label reading *Apple and Strawberry Jam*, means that a larger amount of apple pulp than of strawberry pulp, has been used. But in neither case is any information of a definite kind furnished. Thus, the first label may mean that 80 per cent of the fruit is strawberry; while the second case may mean that 80 per cent of the fruit is apple. We have indeed, seen jams labelled *Apple and Strawberry*, in which much doubt existed as to whether as much as 10 per cent of the fruit was strawberry. Many complaints have been made by reputable jam makers, to the effect that existing uncertainty as to what constitutes legal jam, and the willingness of unscrupulous manufacturers to put on the market such goods as the present standards permit, has done serious injury to the business. Certain inferences which may be drawn from the present report appear to justify the complaints referred to. Thus, of the total number of jams (227) herein reported, 106 are sold as compound, in the sense that apple constitutes a part and usually the predominant part of the fruit used in their manufacture. In the inspection of 1912 (Bulletin 244), out of 158 samples, only 3 were labelled compound and sold as such. In that of 1909 (Bulletin 194) of 146 samples, only 22 were sold as compound. It is open to question whether the public taste demands a mixed fruit jam to the extent these numbers indicate. Jam has usually been understood to be made essentially of one fruit, and has been sold under the specific name of such fruit. This report shows that jams consisting of a single fruit, and sugar and free from preservatives or colouring, form only 93 samples out of a collection of 227 samples. Of this number 38 are imported jams, only 55 being of domestic manufacture. Even this statement does not correctly indicate the facts, as

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regards market samples, for ten (10) samples were supplied, not from the retail market, but by the manufacturer; so that as regards the retail market, this report shows that, out of 83 samples of strictly genuine jam, in the sense of being made with one fruit and sugar only, 38 are imported and only 45 are Canadian made.

This is not because Canada is unable to supply strawberries or raspberries, or other fruit suitable for jam manufacture; and can only be explained in the assumption that mixed jams, in which apple pulp plays a conspicuous part, have largely usurped the market. It is impossible to say whether or not this usurpation is due to the free choice of the consumer, who is incorrectly, or at least, indefinitely informed as to the character of the article offered.

The results of the present inspection may be summarized thus:—

<i>Sold as Jam.</i> —Found genuine, as consisting of one fruit and sugar only—	
Imported .....	38
Domestic manufacture and found on retail market .....	45
“ and furnished by manufacturer.....	10
	— 93
Found genuine, as above but with added colour or preservative.....	22
<i>Sold as Compound</i> —	
Analysed .....	77
Not analysed.....	29
	— 106
Collected by error, being jelly or home-made and not on the open market.....	6
	—
Total.....	227
	—

I beg to recommend publication of this report as Bulletin No. 309.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1914.								
Oct. 20	Jam.....	47131	Cross & De Wolfe, Kentville, N.S.	3 jars.	45	Can. Canner's Hamilton, Ont.	Payzant & King, Halifax.	Strawberry & Apple.
" 20	" .....	47132	Cam Bros., Yarmouth, N.S.	3 "	75	Chivers & Sons, Cambridge, Eng.	Puddington Wetmore, St. John, N. B.	Damson Plum
" 21	" .....	47133	Kirk Bros., Yarmouth, N.S.	3 "	75	Furnivall, New Hamilton, Ont.	Mfrs. . . .	Black Currant.
" 21	" .....	47134	Wentworth Stores, Windsor, N.S.	3 "	38	Can. Canners Ltd.	Unknown...	Raspberry & Apple.
" 21	Compound Jam.	47135	Canada Food Co., Windsor, N.S.	3 "	30	" " ...	Can. Food Co., Halifax, N. S.	Peach.....
" 28	" ..	47136	Wentzell's Ltd., Halifax, N.S.	3 "	30	" " ...	Mfrs. . . .	Lyn Valley Brand.
" 28	" ..	47137	A. & W. Smith & Co., Halifax, N.S.	3 "	25	" " ...	" ..	Gooseberry
" 29	Jam.....	47138	J. L. Wilson & Co., Halifax, N.S.	3 "	44	Dom. Canner's Ltd., Hamilton, Ont.	" ..	Strawberry.
" 29	" .....	47139	R. B. Caldwell, Halifax, N.S.	3 "	50	E. D. Smith, Windsor, Ont.	" ..	Peach.....
Nov. 2	" .....	47140	C. McNab & Co., Dartmouth, N.S.	3 "	30	The T. Upton Co., Hamilton, Ont.	Unknown...	Apple and Raspberry

DISTRICT OF CAPE BRETON—

Oct. 19	Strawberry Jam.	63804	F. & J. Morley, Sydney, C.B.	3 jars.	75	Millar & Co., Ltd. Belfast, Eng.	.....	.....
" 23	Plum, Apple Jam.	63805	J. F. Miles, Sydney, C. B.	3 "	30	Can. Canners, Hamilton, Ont.	.....	.....
" 23	Blk. Currant Apple Jam	63806	" " .....	3 "	30	" " ...	.....	.....
" 23	Raspberry, Apple Jam	63807	" " .....	3 "	30	" " ...	.....	.....

DISTRICT OF PRINCE EDWARD ISLAND—

Oct. 14	Raspberry, Apple Jam	60113	Beer & Goff, Charlottetown, P.E.I.	3 pkg.	30	Can. Canners Ltd., Hamilton	.....	.....
" 14	" " ..	60116	Coffin & Co., Charlottetown, P. E. I.	3 "	40	Can. Preserving Co., Ltd., Hamilton.	.....	.....



## SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis..											Remarks, and Opinion of the Chief Analyst.	
Solids per cent.			Water.	Polarization (Normal Solution.)			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.		No. of Sample.
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

## R. J. WAUGH, INSPECTOR.

p. c.	p. c.	p. c.	p. c.				p. c.	p. c.				
0·87	64·95	65·82	34·18	-1·7	-28·9	27·2	20·4	44·53	Ben- zoic acid	Pre- sent.	47131	Sold as compound.
2·82	63·27	66·09	33·91	+26·0	-22·0	48·0	36·0	27·22	None.	None.	47132	Genuine. Imported.
3·44	67·91	71·35	28·65	-5·0	-20·9	15·9	11·9	55·96	"	"	47133	" Domestic.
1·90	58·10	60·00	40·00	+18·0	-8·6	26·6	20·0	38·10	Ben- zoic acid	"	47134	Sold as compound.
1·45	62·92	64·37	35·63	+81·6	+61·5	20·1	15·1	47·82	"	"	47135	" Contains glucose.
3·02	62·50	65·52	34·48	+81·2	+56·9	24·3	18·2	44·25	"	Pre- sent.	47136	" "
2·17	62·92	65·09	34·91	+73·1	+61·2	11·9	8·9	53·97	"	None.	47137	" "
3·13	61·25	64·38	35·62	+20·7	-21·4	42·1	31·6	29·63	None.	Pre- sent.	47138	Genuine, but coloured.
1·02	62·98	64·00	36·00	+15·7	-20·9	36·6	27·5	35·46	"	None.	47139	Genuine. Domestic.
1·91	64·77	66·68	33·32	+45·7	-23·2	68·95	51·8	13·00	"	"	47140	Sold as compound.

## E. T. MACKEE, INSPECTOR.

4·46	64·40	68·86	31·14	+16·0	-20·3	36·3	27·3	41·59	None.	None.	63804	Genuine. Imported.
0·88	66·88	67·76	32·24	+5·4	-24·6	30·0	22·5	44·33	"	Pre- sent.	63805	Sold as compound.
1·78	64·10	65·88	34·12	+7·3	-23·2	30·5	22·9	41·18	Ben- zoic acid.	None.	63806	" "
1·03	66·24	67·27	32·73	+14·9	-24·0	38·9	29·2	37·03	None.	"	63807	" "

## W. M. A. WEEKS, INSPECTOR.

2·25	69·10	71·35	28·65	+1·5	-27·4	28·9	21·6	47·51	Ben- zoic acid.	Pre- sent.	60113	Sold as compound.
0·64	71·70	72·34	27·66	-6·2	-19·7	13·5	10·1	61·62	"	"	60116	" "

6 GEORGE V, A. 1916

BULLETIN No. 309—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF PRINCE EDWARD ISLAND—

1914.								
Oct.	14	Raspberry Jam	60118	Coffin & Co., Charlottetown, P.E.I.	3 pkg.	75	Chivers & Sons, Cambridge, Eng.	
"	14	" " "	60119	J. C. Crabbe, Charlottetown, P.E.I.	3 "	75	Can. Preserving Co., Hamilton	
"	14	Blk. Currant Jam.	60120	W. W. Walker, Charlottetown, P.E.I.	3 "	75	Wagstaffes Ltd., Hamilton.	
"	17	Raspberry Jam.	60121	Stewart & Sons, Charlottetown, P.E.I.	3 "	72	Cross & Blackwell London, Eng.	
"	17	Strawberry Jam.	60122	" " "	3 "	60	Cairns, Paisley, Scot.	
"	17	Jam (Strawberry).	60123	F. J. Holman & Son, Ltd., Charlottetown, P.E.I.	3 "	75	J. A. Charwood & Co., St. Geo. Wood, London, Eng.	
"	19	" " "	60124	A. Peters, Charlottetown, P.E.I.	3 "	75	The Canada Preserving Co., Hamilton.	
"	19	Jam (Peach Compound)	60125	P. A. Smith, Charlottetown, P.E.I.	3 "	36	Canada Cannery, Ltd., Hamilton	

## DISTRICT OF NEW BRUNSWICK—

Oct.	7	Jam (Apple and Strawberry).	59554	W. A. Simonds, St. John, N.B.	3 jars.	36	The T. Upton Co., Hamilton, Ont.	
"	8	Jam (Raspberry).	59555	Walter Gilbert, St. John, N.B.	3 "	60	Betty's Saratoga Chips, Toronto.	
"	23	Jam (Black Currant).	59558	Inches & Grimmer, St. Stephen, N.B.	3 "	1 05	E. D. Smith, Winona, Ont.	
"	27	Jam (Comp. Peach).	59559	M. E. Doohan, Fredericton, N.B.	3 "	30	Canada Cannery, Ltd., Hamilton, Ont.	Lyn Valley.
"	27	Jam (Raspberry and Apple).	59560	H. C. Jewett, Fredericton, N.B.	3 "	30	"	Red Seal Brand.
"	27	Jam (Comp. Strawberry).	59561	Parent, Bird & Co., Fredericton, N.B.	3 "	36	"	Lyn Valley.
"	27	Jam (English Apricot).	59562	G. T. Whelpley Esq., Fredericton, N.B.	3 "	90	Crosse & Blackwell, London, Eng.	
"	28	Jam (Strawberry).	59563	P. Bradley, Woodstock, N.B.	3 "	75	Holbrook & Co., London, Eng.	English....
"	28	Jam (Apple and Peach)	59564	Watson & True, Woodstock, N.B.	3 "	30	The T. Upton Co., Hamilton, Ont.	S. B. & L. Brand.
"	28	Jam (Strawberry and Apple).	59565	Yerxa Grocery Co., Woodstock, N.B.	3 "	30	Linders Ltd., Toronto, Ont.	B a n n e Brand.

SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Solids, per cent.			Water.	Polarization. (Normal solution.)			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Indirect.	Difference.						

*Concluded.*

p. c.	p. c.	p. c.	p. c.				p. c.	p. c.					
2.62	71.82	74.44	25.56	+ 6.7	-23.8	30.5	23.1	48.72	None.	None.	60118	Genuine.	Imported.
4.15	66.76	70.91	29.09	- 3.6	-21.1	17.5	13.0	53.76	"	Pre-sent.	60119	Genuine.	With colour added.
3.40	68.00	71.40	28.6	+ 3.7	-23.2	26.9	20.2	47.80	"	None.	60120	Genuine.	Domestic.
3.78	62.93	66.71	33.29	+ 3.3	-21.2	24.5	18.5	44.38	"	"	60121	"	Imported.
2.08	71.82	73.90	26.10	+ 9.1	-23.2	32.3	24.1	47.72	"	"	60122	"	"
3.57	66.20	69.77	30.23	+29.5	-21.2	50.7	37.8	28.40	"	"	60123	"	"
3.12	74.56	77.68	22.32	+17.3	-20.1	37.4	27.9	46.66	"	Pre-sent	60124	Genuine.	With colour added.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60125	Sold as compound.	

JOHN C. FERGUSON, INSPECTOR.

1.85	62.91	64.76	35.24	+31.4	-19.0	50.4	37.6	25.31	None.	None.	59554	Sold as compound.	
4.66	59.26	63.92	36.08	+17.4	-18.3	35.7	26.6	32.61	"	"	59555	Genuine.	Domestic.
4.79	59.62	64.41	35.59	+23.4	-20.3	43.7	32.8	51.59	"	"	59558	"	"
1.70	61.75	63.45	36.55	+77.5	+61.2	16.3	12.2	49.50	Ben-zoic acid	"	59559	Sold as compound.	Contains glucose.
1.19	65.71	66.90	33.10	+ 4.0	-26.0	30.0	22.5	43.16	"	Pre-sent	59560	Sold as compound.	
1.92	64.77	66.69	33.31	+88.3	+62.3	26.0	19.5	45.22	"	"	59561	Sold as compound.	Contains glucose.
1.02	63.27	64.29	35.71	+34.2	-21.2	55.4	41.3	21.92	None.	None.	59562	Genuine.	Imported.
2.03	70.31	72.34	27.66	+30.1	-23.4	53.5	39.9	30.39	"	"	59563	"	"
1.30	66.47	67.77	32.23	+30.5	-23.2	53.5	40.2	26.25	"	"	59564	Sold as compound.	
0.46	67.70	68.16	31.84	+28.6	-21.7	50.3	38.8	28.90	"	Pre-sent	59565	"	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF QUEBEC CITY—

1914.								
Sept. 28	Jam (Pure)..	56289	P. Laberge, 465 Rue St. François, Quebec.	3 jars.	30	Canada Cannerns, Hamilton.	Whitehead & Turner.	.....
" 28	" (Comp.)	56290	N. Côté, 79 Rue St. Ambroise, Quebec.	3 "	30	" ..	N. Turcotte.	.....
" 28	" (Pure)..	56291	J. B. Lapointe, 57 Rue St. Ambroise, Quebec.	3 "	30	The T. Upton Co., Hamilton.	Boivin & Grenier.	.....
" 28	" (Comp.)	56292	V. Beauprés, 59 Rue Carillon, Quebec.	3 "	30	St. Lawrence Co., Ltd.	Mfrs. ....	.....
" 28	" (Pure)..	56293	Jos. Vézina, 914 Rue St. Valier, Quebec.	3 "	75	Stewart, Ltd., St. Clair Valley.	Langlois & Paradis.	.....
" 28	" " ..	56294	J. Pepin, 132 Rue Marne, Quebec.	3 "	30	Canada Cannerns, Hamilton.	Turcotte & Frère.	.....
" 28	" (Comp.)	56295	J. A. Bédard, 728 Rue Marne, Quebec.	3 "	30	Simcoe Canning Co., Ontario.	Whitehead & Turner.	.....
" 28	" (Pure).	56296	Arthur Drolet, 714 Rue St. Valier, Quebec.	3 "	90	Holbrook & Co., London, Eng.	J. B. Renaud & Cie.	.....
" 28	" " ..	56297	" " ..	3 "	90	Wagstaffe, Hamilton.	Turcotte & Frère.	.....
" 28	" " ..	56298	" " ..	3 "	90	Holbrook & Co., London, Eng.	J. B. Renaud & Cie.	.....

## DISTRICT OF QUEBEC PROVINCE—

Sept. 29	Confiture (Raspberry)	2559	Cleophas Beaudoin ..	3 bts.	75	The McCormick Mfg. Co., London, Ont.	.....	.....
" 30	" ..	2561	Adelard Larochelle, St. Magloire.	3 lbs.	55	L. Letourneau, 35 Smith St., Quebec.	.....	.....
" 30	Confiture (Prune).	2563	J. O. Fournier, St.	1 bt.	80	Aylmer Can. and Pres. Co., Hamilton.	.....	.....
" 30	Confiture (Fraise).	2564	Adelard Larochelle, St. Magloire.	3 lbs.	60	L. Letourneau, 35 Smith St., Quebec.	.....	.....
Oct. 7	" ..	2565	Louis Corriveau, St. Michel.	3 verr.	75	Aylmer Can. Co., Hamilton.	Turcotte Frère.	.....
" 7	Jelly Pommes.	2567	" " ..	3 pots.	75	Hamilton, Canada.	.....	.....
" 9	Confiture Fraise.	2569	Nazaire Morency, St. Charles.	3 " ..	60	Aylmer Can. Co., Ltd., Hamilton.	.....	.....
" 9	Confiture Raspberry.	2570	" " ..	3 " ..	60	" " ..	.....	.....

## SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Solids per cent.			Water.	Polarization (Normal Solution).			Residual Cane Sugar.	Soluble Matter other than Cane Sugar.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

## F. X. W. E. BÉLAND, INSPECTOR.

p. c.	p. c.	p. c.	p. c.				p. c.	p. c.					
1.09	70.08	71.17	28.83	- 1.7	- 26.7	25.0	18.6	51.48	None.	Pre-sent	56289	Sold as compound.	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56290	"	"
13.53	53.62	67.15	32.85	+ 21.7	- 7.1	28.8	21.5	32.13	None.	None.	56291	"	"
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56292	"	"
3.37	65.75	69.12	30.88	+ 34.6	- 21.5	56.1	41.8	23.90	None.	None.	56293	Genuine.	Domestic.
2.99	65.65	68.64	31.36	+ 47.1	+ 29.8	17.3	12.9	42.75	Ben-zoic acid	Pre-sent	56294	Sold as compound. Glucose jam.	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56295	Sold as compound.	
5.40	61.70	67.10	32.90	- 3.1	- 20.0	16.9	12.7	49.00	None.	None.	56296	Genuine.	Imported.
2.80	64.00	66.80	33.20	+ 26.9	- 21.4	48.3	36.3	27.70	"	"	56297	"	Domestic.
7.60	59.30	66.90	33.10	- 1.3	- 19.2	17.9	13.5	45.80	"	Pre-sent	56298	"	with added colour.

## O. BROCHU, TEMPORARY INSPECTOR.

5.15	65.56	70.71	29.29	+ 29.1	+ 13.3	15.8	11.8	53.76	None.	Pre-sent.	2559	Sold as compound. Contains glucose.
6.34	64.00	70.34	29.66	+ 54.8	+ 11.1	43.7	32.6	31.40	"	"	2561	Contains glucose. Sold as compound.
6.90	58.60	65.50	34.50	- 7.6	- 15.1	7.5	5.6	53.00	"	None.	2563	Genuine. Domestic.
1.87	67.97	69.84	30.16	+ 18.7	- 22.9	41.6	31.0	36.92	"	Pre-sent.	2564	" with added colour.
3.87	59.61	63.48	36.52	+ 18.4	- 20.3	38.7	28.8	30.81	"	None.	2565	Genuine. Domestic.
0.10	59.20	59.30	40.70	- 15.6	- 21.4	5.8	4.4	54.80	"	"	2567	" Is apple jelly.
2.55	56.85	59.40	40.60	+ 49.4	+ 32.7	16.7	12.4	44.45	Ben- zoic acid.	Pre-sent.	2569	Contains glucose, pre- servative and colour. Sold as compound.
5.76	62.22	67.98	32.02	+ 9.3	+ 20.3	29.6	22.1	40.12	None.	None.	2570	Genuine. Domestic.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacture or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC PROVINCE—

1914.								
Sept. 23	Strawberry..	2388	A. Lavigne, St. Scholastique.	3 bots.	60	Oshawa Can. Co., Oshawa, Ont.		
" 23	Golden Plum Jam..	2390	Wm. Sauve, St. Scholastique.	3 verr.	75	Chivers & Sons, Ltd.		
Oct. 1	Fruit Jam..	2392	B. Millar, St. Jerome.	3 " ..	36	The T. Upton Co., Ltd.		
" 1	Strawberry..	2393	J. N Desjardine, St. Jerome.	3 " ..	60	Hudon, Hebert & Cie, Montreal.		
" 1	Pure Peach..	2394	Mde W. Desjardine, St. Jerome.	3 " ..	66	Wagstaffe Ltd...		
" 1	Raspberry Jam.	2395	Leandre Paquin, St. Jerome.	3 " ..	75	Hudon, Hebert & Cie, Montreal.		

DISTRICT OF QUEBEC PROVINCE—

Oct. 23	Confiture Framboise and Pomes.	2720	R. L'Esperance, Montnagny.	3 verr.	45	Lindners Ltd...		
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DISTRICT OF THREE RIVERS--

Sept. 19	Confiture Co.	2642	Simeon, Het....	3 bots.	30	Can. Canners, Ltd., Hamilton, Ont.	Hudon Hebert, Montreal.	
" 19	Confiture...	2652	T. B. Rivest, St. pice.	3 "	75	John Gray & Co. Glasgow.	Chaput fils, Montreal.	
" 18	Confiture Co.	2653	Ulric Taillon, St. Roche.	3 "	30	Can. Canners Co. Ltd., Hamilton.	Chevalier Pouliot, Joliette.	
" 25	Confiture...	2654	W. Gendreau, St. Roch.	3 glasses.	75	Crosse & Blackwell, London, Eng.	"	
" 18	" ...	2655	A. Amirault, L'Epi-phanie.	3 "	75	Chivers Sons Ltd., Cambridge, Eng.		
" 17	" ...	2656	C. Barrette, Joliette.	3 "	75	L. Noel & Sons, Ltd., London, Eng.		
" 17	" ...	2657	J. A. Boisvert, "	3 bots.	75	E. D. Smith, Winona, Ont.		
" 25	Confiture Co.	2658	Frs. Forest, St. Jacques.	3 "	75	Upton Co., Hamilton, Ont.		
" 25	" ...	2659	" "	3 glasses.	50	Lin ners Ltd., Toronto.		



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF THREE RIVERS—

1914.								
Sept. 25	Confiture...	2661	J. E. Boulard, St. Jacques.	3 bots.	35	J. E. Boulard, St. Jacques.		
" 18	Confiture Co.	2662	A. Amirault, L'Epiphanie.	3 "	30	Can. Cannery Co. Hamilton.	Chaput fils, Montreal.	
" 18	"	2664	Vian, L'Epiphanie.	3 tins.	75	Wentworth Pres. Co., Hamilton.		
" 23	Confiture...	2665	Leon Bruno, St. Felix Valois.	3 glasses.	75	D o m. Cannery Co., Hamilton.		
" 30	"	2666	A. Caisse, Berthier-ville.	3 "	75	L. Noel & Sons, Ltd., London, Eng.		
Oct. 2	"	2667	Chevalier Magnan, Joliette.	3 "	55	Aylmer Can Co. Ltd., Aylmer, Ont.		
" 2	Confiture Co.	2668	" "	3 "	75	Wentworth Pres. Co., Hamilton.		
" 2	"	2669	F. Guimont Cie, Joliette.	3 lbs.	45	Vendor		
" 5	"	2671	Joseph Forest, St. Gabriel, Brandon.	3 glasses.	30	Can. Cannery Co. Hamilton, Ont.		
" 5	"	2672	Paul Clermont, St. Gabriel, Brandon.	3 "	30	U p t o n s Co., Hamilton, Ont.		
" 6	Confiture...	2673	J. O. Malo, Joliette.	3 "	75	A y l m e r Canning Co., Hamilton.		

## DISTRICT OF EASTERN TOWNSHIPS—

Oct. 20	Prunes and Pommes.	1670	P. J. Girard Richmond.	3 jars.	30	Wentworth Preserving Co., Hamilton.		
" 20	Fraises. ....	1671	D. W. Stinson, Sherbrooke.	3 "	75	L. Noel & Sons, Ltd., London, Eng.		
" 20	Peaches and Pommes.	1672	Girard & Touquet, Sherbrooke.	3 "	30	Linders, Ltd., Toronto.		
" 20	Red Currant and Raspberry.	1673	Bray Bros, Sherbrooke.	3 "	60	E. D. Smith, Winona, Ont.		
" 21	Strawberry and Apples	1674	H. Chamberlain, Magog.	3 tins.	75	The McCormick Mfg. Co., London, Ont.		
" 21	Strawberry Compound	1675	N. Hamel, Magog.	3 "	30	Can. Cannery Co., Ltd., Hamilton, Ont.		
" 22	Apricot ....	1676	Beaudry & Beauchemin, Granby.	3 "	60	John Gray & Co., Ltd., Glasgow.		



## SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Solids per cent.			Water.	Polarization (Normal Solution.)			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

*Concluded.*

p.c.	p.c.	p.c.	p.c.				p.c.	p.c.				
7.60	57.80	65.40	31.60	+19.3	-15.7	35.0	26.3	31.50	None.	None.	2661	Genuine. Home made.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2662	Sold as compound.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2664	" "
2.23	66.10	68.33	31.67	+11.7	-22.0	33.7	25.1	40.95	None.	None.	2665	Genuine. Domestic.
4.23	66.22	70.45	29.55	+15.9	-22.3	38.2	28.5	37.72	"	"	2666	" Imported.
2.31	63.05	65.36	34.64	+18.3	-20.6	38.9	29.0	34.02	"	"	2667	" Domestic.
0.52	65.11	65.63	34.37	-1.0	-23.2	22.2	16.6	48.51	"	Pre- sent.	2668	Sold as compound.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2669	" "
2.79	73.44	76.23	23.77	+63.6	+35.3	28.3	21.2	52.25	None.	None.	2671	" " Con- tains glucose.
1.01	68.44	69.45	30.55	+19.9	-21.3	41.2	30.7	37.74	"	"	2672	Sold as compound.
3.60	66.20	69.80	30.20	+1.4	-17.0	18.4	13.7	52.50	"	"	2673	Genuine. Domestic.

## J. C. ROULEAU, INSPECTOR.

3.02	61.80	64.82	35.18	- 6.7	-19.9	13.2	9.8	51.95	None.	Pink.	1670	Sold as compound.
4.70	62.50	67.20	32.80	+29.6	-20.0	49.6	37.3	25.20	"	None.	1671	Genuine. Imported
0.28	70.30	70.58	29.42	+15.1	-22.2	41.3	30.8	39.54	Ben- zoic acid.	"	1672	Sold as compound.
4.00	59.70	63.70	36.30	+ 2.3	-14.3	16.6	12.5	47.20	None.	"	1673	" "
2.38	64.56	66.94	33.06	+50.1	-24.2	25.9	19.3	45.26	"	Pres- ent.	1674	" "
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1675	" "
1.90	66.50	68.40	31.60	+17.6	-19.8	37.4	28.2	38.30	None.	None.	1676	Genuine. Imported.

6 GEORGE V, A. 1916

BULLETIN No. 309—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF MONTREAL—

1914.								
Oct. 15	Jam . . . . .	62501	E. Leroyer 1651 Notre Dame St., East, Montreal.	3 jars.	30	Alphonse Raymond, Montreal.		Raspberry ..
" 15	" . . . . .	62502	J. H. Caille, 1380 St. Catherine St., E., Montreal.	3 "	60	St. Louis Preserving Co., Montreal.		Strawberry..
" 20	" . . . . .	62503	G. Guibord, 385 Grand Trunk St., Montreal.	3 "	36	Vendor . . . . .		Plum.....
" 20	" . . . . .	62504	J. A. Doré, 1286 Notre Dame St., W., Montreal.	3 "	45	" . . . . .		Blackberry .
" 20	" . . . . .	62505	J. E. Montpetit, 64 St. Augustin St., Montreal.	3 "	30	Lindners, Ltd., Toronto.		Strawberry..
" 21	" . . . . .	62506	A. Blais, 92 Desery St., Montreal.	3 "	30	St. Louis Preserving Co., Montreal.		Apple and Strawberry
" 21	" . . . . .	62507	W. Demontigny, 152 Desery St., Montreal.	3 "	75	Lebrecque & Pellerin, Montreal.		Strawberry..
" 21	" . . . . .	62508	A. Laurendeau, 159 St. Paul St., Montreal.	3 "	30	L. Semetey's, Montreal.		Raspberry Compound.
" 21	" . . . . .	62509	J. D. Boileau, Bonsecours & St. Louis Sts., Montreal.	3 "	75	.....	Hudon & Hebert & Co., Montreal.	Strawberry..
" 21	" . . . . .	62510	E. Lawne, 197 Vitre St., Montreal.	3 "	30	Can. Cannery, Ltd., Hamilton.		Strawberry and Apple.

## DISTRICT OF OTTAWA—

Sept. 12	Jam. ....	63452	Dempsey & Co., Renfrew.	3 jars.	30	Can. Cannery, Ltd., Hamilton.	Mfrs. ....	Strawberry and Apple.
" 19	" . . . . .	63453	J. H. Edwards, Carleton Place.	3 "	75	Glassco's Ltd., Hamilton.	" . . . . .	Raspberry ..
" 19	" . . . . .	63454	J. B. Gardine & Sons, Carleton Place.	3 "	30	Linders Ltd., Toronto.	" . . . . .	Banner Brand, Raspberry and Apple.
" 19	" . . . . .	63455	Baird & Riddell, Carleton Place.	3 "	35	Can. Preserving Co., Hamilton.	" . . . . .	Lily Brand, Gooseberry and Apple.
" 23	" . . . . .	63456	W. West, Almonte..	3 "	30	The T. Upton Co., Ltd., Hamilton	" . . . . .	Raspberry and apple.



6 GEORGE V, A. 1916

BULLETIN No. 309—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF OTTAWA—

1914.								
Sept. 24	Jam.....	63457	A. P. Johnson, Bronson ave., Ottawa..	3 jars	75	Furnivall New, Ltd., Hamilton	Mfr. ....	Black currant; guaranteed to contain no glucose.
" 24	" .....	63458	" "	3 "	30	Can. Preserving Co., Ltd., Hamilton.	" .....	Compound Raspberry, Lily brand.
" 24	" .....	63459	National Railway Association, Somerset st., Ottawa.	3 "	75	John Gray & Co., Ltd., Glasgow, Scotland.	" .....	Raspberry ..
" 24	" .....	63460	Major & Hurteau, Somerset street, Ottawa.	3 "	60	Dom. Canners, Ltd., Hamilton	" .....	Raspberry ..
" 24	" .....	63461	F. A. Scott & Sons, Wellington street, Ottawa.	3 "	30	The T. A. Lytle Co., Ltd., Toronto.	" .....	Compound Strawberry
" 29	" .....	63473	A. E. Kelly, Florence street, Ottawa.	3 "	75	E. D. Smith, Winona, Ont.	The F. J. Castle Co., Ottawa.	Strawberry..
" 29	" .....	63474	" "	3 "	60	Miller & Co., Ltd., Belfast, Ireland.	" ..	Raspberry..

## DISTRICT OF VALLEYFIELD—

Sept. 21	Jam.....	62770	George Bougie, Alexandria, Ont.	3 jars	30	Lindners, Ltd., Toronto.	.....	Strawberry and apple.
" 21	" .....	62771	Alex. Davis, Alexandria, Ont.	3 "	30	Can. Canners, Ltd.	.....	Black currant and apple.
" 21	" .....	62772	J. A. Lalonde, Alexandria, Ont.	3 "	30	" "	.....	Raspberry and apple.
" 29	" .....	62773	E. Bougie, Valleyfield.	3 "	30	" "	.....	Raspberry compound.
" 29	" .....	62774	R. Biron, Valleyfield	3 "	30	Lindners, Ltd.	.....	Strawberry and apple.
Oct. 2	" .....	62775	L. Moreau, St. Johns, P.Q.	3 "	45	The Upton Co., Ltd.	.....	Apple and strawberry.
" 6	" .....	62776	H. Mougeot, Masson, P.Q.	3 "	30	.....	.....	Black currant compound, Premium brand
" 13	" .....	62777	E. D. Bienvenue, Farnham, P.Q.	3 "	75	E. D. Smith, Winona, Ont.	.....	Strawberry..
" 13	" .....	62778	J. Dagenais & Cie, Farnham, P.Q.	3 "	75	.....	.....	Raspberry, Gazelle brand.
" 13	" .....	62779	National Railway Association, Ltd., Farnham, P.Q.	3 "	75	Glassco, Ltd., Hamilton.	.....	Strawberry..

## SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Solids, per cent.			Water.	Polarization. (Normal Solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

*Concluded.*

p. c.	p. c.	p. c.	p. c.					p. c.	p. c.				
6.10	66.00	72.10	27.90	-11.7	-21.6	9.9	7.5	55.50	None.	None.	63457	Genuine.	Domestic.
2.04	67.33	69.37	30.63	+57.4	+24.9	32.5	24.2	43.16	"	Pre-sent.	63458	Sold as compound.	Contains glucose.
4.09	67.74	71.83	28.17	- 3.6	-22.0	18.4	13.9	63.82	"	None.	63459	Genuine.	Imported.
5.25	62.81	68.06	31.94	+ 2.8	-20.0	22.8	17.0	45.79	"	"	63460	"	Domestic.
0.67	68.96	69.63	30.37	+44.5	+20.3	24.2	18.0	50.96	"	Pre-sent.	63461	Sold as compound.	Contains glucose.
3.93	54.17	58.10	41.90	-15.6	-20.8	5.2	4.0	50.17	"	None.	63473	Genuine.	Domestic.
3.55	64.45	68.00	32.00	- 4.3	-20.3	24.6	18.4	46.07	"	"	63474	"	Imported.

## J. J. COSTIGAN, ACTING INSPECTOR.

1.34	72.87	74.21	25.79	+10.0	-26.7	36.7	27.4	45.47	None.	Pre-sent.	62770	Sold as compound.	
3.02	65.10	68.12	31.88	+53.4	+38.5	14.9	11.1	53.98	"	None.	62771	"	" Contains glucose.
1.45	66.85	68.30	31.70	- 1.4	-27.5	26.1	21.6	45.25	Ben-zoic acid.	Pre-sent.	62272	Sold as compound.	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62773	"	"
1.30	64.55	65.85	34.15	-19.0	-25.3	44.3	33.0	31.55	None.	"	62774	"	"
1.77	67.85	69.62	30.38	+31.5	-22.4	53.9	40.2	27.65	"	None.	62775	"	"
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62776	"	"
3.07	66.93	70.00	30.00	+25.7	-22.0	47.7	35.6	31.33	None.	None.	62777	Genuine.	Domestic.
6.70	62.93	69.63	30.37	+ 6.3	-20.3	26.6	20.1	42.80	"	"	62778	"	"
3.80	65.67	69.47	30.53	+15.4	-19.6	35.0	26.1	39.57	Salicylic acid.	"	62779	"	with preservative.

6 GEORGE V, A. 1916

BULLETIN No. 309—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF KINGSTON—

1914.								
Oct.	28	Currant and Apple Jam.	61545 J. R. B. Gage, Kingston.	3 pkgs	30	Oakville Preserving Co., Oakville.		
"	2	Red Raspberry Jam.	61546 J. Timmons, Kingston.	3 "	30	Glassco., Ltd., Hamilton.		
"	29	Apple and Strawberry Jam.	61547 Geo. Gibson, Kingston.	3 "	30	T. Upton Co., Hamilton.		
"	29	Strawberry Jam.	61548 J. Gilbert, Kingston.	3 "	75	T. Upton Co., Hamilton.		
"	29	Raspberry and Apple Jam.	61549 C. R. McLeod, Kingston.	3 "	30	Lindners, Ltd., Toronto.		
"	29	Apple and Strawberry Jam.	61550 H. M. Stover, Kingston.	3 "	30	T. Upton Co., Hamilton.		
"		Raspberry & Apple Jam	61551 W. J. Arniel, Kingston.	3 "	30	Lindners, Ltd., Toronto.		
"		Strawberry and Apple Jam.	61552 W. J. Lee, Kingston.	3 "	30	"		
Nov.	3	Strawberry Jam.	61553 H. W. Kelley, Nanter.	3 "	75	Wagstaffe		
"	3	Raspberry Jam.	61554 John Paisley, Nanter.	3 "	75	"		

## DISTRICT OF TORONTO—

Sept.	22	Plum and Apple Jam.	63101 Linders, Ltd., 340 Dufferin st., Toronto.	3 tum.	30	Vendors...		Banner Brand.
"	24	Strawberry and Apple Jam.	63102 Riesberry Grocery, 292 Dupont st., Toronto.	3 "	30	Can. Canners, Ltd., Hamilton		Red Seal...
"	25	"	63103 H. E. Vince, 369 Brock ave., Toronto.	3 "	30	Wentworth Preserving Co., Hamilton.		Orchard Brand.
"	28	"	63104 J. A. Fraser, 320 Rayer st., Toronto.	3 "	36	Oakville Pres. Co., Oakville.		Royal Brand
"	28	Black Currant Jam with Apple Jelly.	63105 R. A. Dutton, 275 Roncesville ave., Toronto.	3 "	38	Mrs. L. E. Scott, Toronto.		Home made Blk. Curr. Jam with Jelly.
"	28	Raspberry Jam.	63106 Duncan & Brown, 165 Danforth ave., Toronto.	3 jars.	60	E. D. Smith, Winona.		
"	29	Raspberry and Apple Jam.	63107 J. H. Perkins, 656 Pape ave., Toronto.	3 tum.	30	Can. Canners, Ltd., Hamilton		Red Seal.

## SESSIONAL PAPER No. 14

## AMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Solids per cent.			Water.	Polarization (Normal Solution.)			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

## JAS. HOGAN, INSPECTOR.

p. c.	p. c.	p. c.	p. c.				p. c.	p. c.				
0.70	65.54	66.24	33.76	+27.6	-22.0	49.6	37.2	28.29	Ben-zoic acid.	Pre-sent.	61545	Sold as compound.
3.03	61.27	64.30	35.70	+17.9	-20.3	38.2	28.5	32.77	None.	None.	61546	Genuine. Domestic.
0.47	65.27	65.74	34.26	+17.6	-24.6	42.2	31.7	33.57	"	"	61547	Sold as compound.
3.33	63.27	66.60	33.40	+12.0	-20.9	32.9	24.6	38.70	"	"	61548	Genuine. Domestic.
1.40	66.86	68.26	31.74	+20.0	-20.3	40.3	30.3	36.56	"	Pre-sent.	61549	Sold as compound.
0.50	65.16	65.66	34.34	+18.9	-22.3	41.2	30.9	34.21	"	None.	61550	"
1.30	69.35	70.65	29.35	+10.0	-25.7	35.7	26.8	42.54	"	Pre-sent.	61551	"
0.24	65.92	66.16	33.84	+24.0	-20.3	44.3	33.3	32.62	"	"	61552	"
3.64	63.84	67.48	32.52	+ 4.7	-21.7	26.4	19.8	44.01	"	None.	61553	"
4.23	65.40	69.63	30.37	+ 2.3	-21.4	23.7	17.8	47.60	"	Pre-sent.	61554	"

## H. J. DAGER, INSPECTOR.

0.26	73.42	73.68	26.32	+32.9	- 9.5	42.4	31.6	41.78	None.	Pre-sent.	63101	Sold as compound.
0.95	70.07	71.02	28.98	- 2.8	-28.1	30.9	23.0	47.07	Ben-zoic acid.	"	63102	"
1.01	66.20	67.21	32.79	- 5.4	-20.1	14.7	11.0	55.20	Salicyclic acid.	"	63103	"
1.00	67.32	68.32	31.68	+24.3	-22.5	46.8	34.9	32.42	Ben-zoic acid.	"	63104	"
2.79	71.15	73.94	26.06	-13.0	-17.3	4.3	3.2	67.94	None.	"	63105	"
3.97	66.76	70.73	29.27	+14.0	-20.3	31.3	25.6	41.16	"	None.	63106	Genuine. Domestic.
0.95	72.05	73.00	27.00	+25.4	-24.8	50.2	37.5	34.55	Salicyclic acid.	Pre-sent.	63107	Sold as compound.

6 GEORGE V, A. 1916

BULLETIN No. 309—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF TORONTO—

1914.								
Oct.	7	Red Rasp- berry Jam.	63108 C.H. Milton, Orillia.	3 jars.	75	Glassco Ltd., Oakville.		Glassco's Pure Scotch Jam.
"	8	Strawberry Jam.	63110 A. Rayner, Barrie.	3 "	60	The Upton Co., Ltd., Hamilton		
Sept.	22	Strawberry Jam Com- pound.	63111 Wm. Beasley Co., 48 Britain st., Toron- to.	3 cans	45	Vendors.		Contains corn syrup aniline col- our and Benzoate of Soda.
"	22	Apple and Strawberry Jam.	63112 The T. A. Lytle Co., 106 Sterling rd., Toronto.	3 jars.	25	"		
"	28	Blk Currant Jam Com- pound.	63113 R. M. Caufield, 402 Roncesville ave., Toronto.	3 "	30	T. Upton		
"	29	Rasp berry Jam Com- pound.	63114 F. B. Altling, 1020 Gerrard st. E.	3 "	30	" Ham- ilton.		
Oct.	1	Strawberry Jam Com- pound.	63115 C. S. McCauley, Newmarket, Ont.	3 "	30	Can. Preserving Co., Ltd., Ham- ilton.		Graham's Lily Brand
"	5	Raspberry Jam Comp.	63117 J. A. Rice, Manager National Grocery Stores, 1628 Queen st. E., Toronto.	3 tins.	45	Wm. Beasley Co., Toronto.		Contains corn syrup, Aniline colour and Benzoate of soda.
"	5	"	63118 Stewart Bros., 1925 Queen street E., Toronto.	3 jars.	30	The T. Upton Co. Ltd., Hamilton		
"	7	Red Currant Jam Comp.	63119 T. B. Cramp, Orillia, Ont.	3 "	30	Can. Preserving Co. Ltd., Hamilton.		Graham's Lily Brand
"	8	Raspberry Jam Comp.	63120 James Cheese- man, Barrie, Ont.	3 "	30	The Can. Cann- ers Ltd., Hamilton		Red Seal ...

## DISTRICT OF HAMILTON—

Oct.	19	Strawberry Jam.	63148 Benson Brothers, 25 Windham street, Guelph.	3 jars.	75	Miller & Co., Belfast, Ire.		
"	19	Gooseberry and Apple Jam.	63149 Hood & Benallock, 50 Market Square.	3 tum.	30	The Can. Cann- ers Ltd., Hamilton		Red Seal ...
"	20	Raspberry Jam.	63150 G. R. Millard, 103 Colborne st., Brant- ford.	3 jars.	54	E. D. Smith, Winona.		



## SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
Solids per cent.			Water.	Polarization (Normal Solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.			
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.							
<i>Concluded.</i>													
p.c.	p.c.	p.c.	p.c.				p.c.	p.c.					
3.02	61.45	64.47	35.53	+26.4	-22.3	48.7	36.9	24.55	None.	Pre- sent.	63108	Genuine, with colour.	
3.93	49.83	53.76	46.24	- 2.9	-17.9	15.0	11.1	38.73	Salic- cyclic acid.	None.	63110	Genuine, with preser- vative.	
.....	.....	.....	.....	.....	.....	.....	.....	.....	..	.....	63111	Sold as compound.	
1.47	71.76	73.23	26.77	+52.0	+27.2	24.8	18.5	53.26	None.	Pre- sent.	63112	" " Con- tains glucose.	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63113	Sold as compound.	
1.57	67.30	68.87	31.13	+52.4	+38.6	13.8	10.3	56.99	None.	None.	63114	" " Con- tains glucose.	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63115	Sold as compound.	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63117	" "	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63118	" "	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63119	" "	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63120	" "	

H. J. DAGER, ACTING INSPECTOR.

2.21	67.45	69.66	30.34	+18.2	-20.3	38.5	28.9	40.71	None.	None.	63148	Genuine. Imported.
1.88	61.88	63.76	36.24	- 4.6	-27.7	23.1	17.4	44.52	Ben- zolic acid.	"	63149	Sold as compound.
4.82	66.43	71.25	28.75	- 0.3	-23.2	22.9	17.2	54.03	None.	"	63150	" "

6 GEORGE V, A. 1916

BULLETIN No. 309—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF HAMILTON—

1914.								
Oct. 19	Raspberry Jam Comp.	63158	Co-operative Association, 39 Quebec st., Guelph.	3 tum.	30	Premium Preserving Co., Hamilton.		Premium Brand.
" 19	Plum Jam Comp.	63159	J. M. Dooley, 12 Wilson st., Guelph.	3 jars.	30	National Canners Ltd., Hamilton		N. C. Brand
" 20	Raspberry Jam Comp.	63160	Geo. Foster & Sons Ltd., Colborne st., Brantford.	3 tum.	25	The Can. Canners Ltd., Hamilton		Red Seal ...
" 23	Strawberry Jam with Gooseberry Jelly.	63151	Wilson & Swayzier, Main st., Welland.	3 pots	15	Clark, Nicholls & Coombs, London, Eng.		
" 26	Raspberry Jam.	63152	H. J. Wells, 54 King st., St. Catharines.	3 tum.	45	Stuart Limited, Sarnia.		
" 27	Black Currant and Apple Jam	63153	Roddy & Walker, 135 Queenston st., St. Catharines.	3 "	30	The T. Upton Co. Ltd., Hamilton		
" 22	Strawberry Jam Comp.	63161	D. Mackay, Dunnville.	3 jars.	30	The Can. Canners Ltd., Hamilton		Lynn Valley
" 23	Raspberry Jam Comp.	63162	L. Blanchard, Main st., Welland.	3 "	30	Dom. Canners Ltd., Hamilton		Canada First

## DISTRICT OF WINDSOR—

Oct. 5	Raspberry Jam.	63913	Gill Bros., Strathroy	3 jars.	60	E. D. Smith, Winona.		
" 5	Fruit Jam..	63915	Mikel & Gill, Strathroy.	3 "	30	The T. Upton Co. Ltd., Hamilton		Strawberry and apple.
" 5	" ..	63916	J. C. Best, Strathroy	3 "	38	Wentworth Pres. Co., Hamilton.		Red Raspberry and apple.
" 5	" ..	63917	W. G. Meekison, Strathroy.	3 "	38	T. A. Lytle Co., Toronto.		Compound peach jelly
" 5	Strawberry Jam.	63919	W. H. Tricker, Sarnia.	3 "	75	Wagstaffe Ltd., Hamilton.		
" 5	Raspberry Jam.	63921	James Galbraith, Sarnia.	3 "	75	Stewart Ltd., Sarnia.		
" 6	Strawberry Jam.	63923	R. Wanless & Co., Sarnia.	3 "	75	Macnochie, London, Eng.		
" 6	Fruit Jam..	63924	Jas. Fraser, Sarnia	3 "	30	The Lytle Co., Toronto.		Red Currant Jam Compound.
" 6	" ..	63927	Peter Clark, Sarnia.	3 "	30	Can. Pres. Co., Hamilton.		Lily Brand. Peach and Apple.
" 6	" ..	63928	" " ..	3 "	30	" ..		Lily Brand. Blk. Currant and Apple.

## SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Solids per cent.			Water.	Polarization (Normal Solution.)			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

*Concluded.*

p. c.	p. c.	p. c.	p. c.				p. c.	p. c.				
1·53	58·20	59·73	40·27	+58·6	+32·3	25·3	19·0	39·18	Ben- zoic acid.	None.	63158	Sold as compound. Con- tains glucose.
2·18	55·82	58·00	42·00	+63·1	+46·9	16·2	12·2	43·64	None.	Pre- sent.	63159	" "
1·71	63·47	65·18	34·82	+48·8	+26·3	22·5	16·9	46·57	Ben- zoic acid.	"	63160	" "
2·35	74·10	76·45	23·55	+22·4	-24·7	47·1	35·2	38·92	None.	None.	63151	Sold as compound.
3·50	66·43	69·93	30·07	+36·6	-22·0	58·6	44·1	25·83	"	"	63152	Genuine. Domestic.
1·33	63·42	64·75	35·25	+17·9	-21·7	39·6	29·7	33·67	"	"	63153	Sold as compound.
1·87	63·17	65·04	34·96	+81·0	+58·0	23·0	17·3	45·87	Ben- zoic acid.	Pre- sent.	63161	" " Con- tains glucose.
2·00	66·24	68·24	31·76	+88·0	+68·6	19·4	14·6	51·64	None.	None.	63162	" "

## JOHN TALBOT, INSPECTOR.

5·22	65·11	70·33	29·67	-7·5	-20·3	12·8	9·0	56·11	None.	Pre- sent.	63913	Genuine, with colour
0·84	68·41	69·25	30·75	+22·5	-22·3	44·8	33·4	35·01	"	None.	63915	Sold as compound.
0·82	70·30	71·12	28·88	+2·2	-23·4	25·6	19·1	51·16	Ben- zoic acid.	Pre- sent.	63916	" "
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63917	" "
3·48	65·50	68·98	31·02	+24·3	-22·0	46·3	34·6	30·90	None.	Pre- sent.	63919	Genuine, with colour.
2·51	63·75	66·26	33·74	+30·8	-21·1	51·9	38·7	25·05	"	None.	63921	Genuine. Domestic.
2·70	66·00	68·70	31·30	-12·7	-20·8	8·1	6·1	59·90	"	"	63923	Genuine. Imported.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63924	Sold as compound.
3·66	60·78	64·44	35·56	+14·7	-20·6	35·3	26·4	34·42	None.	Pre- sent	63927	" "
2·29	72·87	75·16	24·84	+3·6	-24·2	27·8	20·8	50·09	"	None.	63928	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA—

1914.								
Sept. 21	Jam . . . .	61161	A. M. Tobias, grocer, Morden.	3 pkgs	75	Wagstaffe, Ltd.		Raspberry Jam.
" 21	" . . . . .	61162	J. T. Acheson & Son, Morden.	3 "	75	St. Williams Fruit Preserves, Norfolk.	Campbell Bros., Winnipeg.	Strawberry Jam.
" 24	" . . . . .	61163	W. P. McCormick Co., Elmwood, P.O.	3 tins.	75	Furnivale New, Ltd., Hamilton		"
" 24	" . . . . .	61164	" " "	3 "	75	Cairns, Paisley, Scot.		Raspberry Jam.
" 25	" . . . . .	61165	L. Krivel, Corydon Ave., Winnipeg.	3 "	75	Fretz, Ltd., Hamilton.		Peach Jam..
" 25	" . . . . .	61166	Laurie Bros., Corydonave., Winnipeg	3 "	75	Tiecklers, London, Eng.		Strawberry Jam.
" 25	" . . . . .	61167	" " "	3 "	75	John Buchanan Bros., Ltd., Glasgow, Scot.		Raspberry Jam.
Oct. 8	" . . . . .	61168	J. M. McMillan, Portage ave., Winnipeg.	3 cans	75	James Robertson & Sons, London.		"
" 8	" . . . . .	61169	" " "	3 "	75	John Buchanan & Bros., Ltd., London.		"
" 8	" . . . . .	61170	" " "	3 "	75	Chivers & Sons, Ltd.		Strawberry Jam.

DISTRICT OF SASKATCHEWAN—

Sept. 24	Fruit Jam..	64036	The A. M. McDonald Co., Ltd., Moose Jaw.	3 jars	60	Chivers & Sons, Histon, Eng.		Black Currant.
" 24	" ..	64037	Codville Co., Ltd., Moose Jaw.	3 "	55	Kootenay Col. Pres. Co., Nelson, B.C.		Red Plum K. C. Brand.
" 21	" ..	64038	Crawford & Co., Moose Jaw.	3 "	60	James Robertson & Sons, Paisley, Scot.		Strawberry Golden Shred Brand.
" 24	" ..	64039	Curry Grocery Co., Moose Jaw.	3 "	75	Wm. P. Hartley, Liverpool.		Strawberry
" 24	" ..	64041	The Innis Co., Moose Jaw.	3 "	75	J. A. McDonald, Nelson, B.C.	Moose Jaw Grocery Co., Moose Jaw.	"
" 24	" ..	64043	King George Grocery, Moose Jaw.	3 "	45	Lindners, Ltd., Toronto.	A. McDonald, Co., Moose Jaw	Compound, Apple and Gooseberry Banner Brand.

## SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Solids per cent.			Water.	Polarization (Normal Solution).			Residual sugar cane.	Soluble matter other than sugar cane.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

## A. C. LARIVIERE, INSPECTOR.

p. c.	p. c.	p. c.	p. c.				p. c.	p. c.					
3.32	63.87	67.19	32.81	+15.7	-20.9	36.6	27.3	36.57	None.	None.	61161	Genuine.	Domestic.
1.95	68.21	70.16	29.84	+42.6	-22.9	65.5	48.9	19.31	"	"	61162	"	"
6.09	50.91	57.00	43.00	+19.9	-19.8	39.7	29.6	21.31	"	"	61163	"	"
2.89	68.32	71.21	28.79	+20.0	-22.6	42.6	31.8	36.52	"	"	61164	"	Imported.
4.40	64.40	68.80	31.20	+33.8	-19.0	52.8	39.7	24.70	"	"	61165	"	Domestic.
1.94	66.10	68.04	31.96	+31.9	-7.4	39.3	29.3	36.76	"	Pre- sent	61166	"	With added
4.20	67.27	71.47	28.53	+21.6	-21.7	43.3	32.3	34.92	"	"	61167	colour.	"
3.14	67.97	71.11	28.89	+24.3	-22.6	46.9	35.5	32.45	"	"	61168	"	"
3.84	67.86	71.70	28.30	+12.1	-21.5	33.6	25.1	42.76	"	"	61169	"	"
4.35	71.76	76.11	23.89	+29.8	-21.0	50.8	37.9	33.86	"	None.	61170	Genuine.	Imported.

## L. H. HALL, INSPECTOR.

5.00	65.70	70.70	29.30	-0.1	-20.9	20.8	15.6	50.10	None.	None.	64036	Genuine.	Imported.
4.10	65.90	70.00	30.00	+31.9	-20.3	52.2	39.2	26.70	"	"	64037	"	Domestic.
2.76	67.90	70.66	29.34	+27.7	-20.8	48.5	36.2	31.70	"	Pre- sent	64038	"	With colour.
2.80	66.21	69.01	30.99	+5.2	-11.8	17.0	12.8	53.45	"	None	64039	"	Imported.
6.93	54.70	61.63	38.37	+28.4	-19.9	48.3	36.0	18.70	"	"	64041	"	Domestic.
2.98	70.09	73.07	26.93	+1.6	-13.0	14.6	10.9	59.20	"	"	64043	Sold as compound.	

6 GEORGE V, A. 1916

BULLETIN No. 309—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF SASKATCHEWAN—

1914.								
Sept. 25	Fruit Jam..	64044	The Red Store, J. R. Kelly, mgr., Moose Jaw.	3 jars.	75	Wagstaffe, Ltd., Hamilton.	Dingwell & Stewart, Winnipeg.	Raspberry & Apple.
" 25	" ..	64045	Kent & Brown Co., Ltd., Moosejaw.	3 "	1.20	Pacific Coast Syrup Co., Seattle U.S.A.	.....	Tea Garden Brand.
" 25	" ..	64046	Allan Cumming Co., Moosejaw.	3 " ..	75	Glassco's Ltd., Hamilton.	.....	Red Currant
" 26	" ..	64047	Moose Grocery Co., Moosejaw.	3 " ..	60	E. D. Smith, Winona.	.....	Green Gage.

## DISTRICT OF ALBERTA—

Oct. 28	Jam .....	52001	R. J. Macdonald, Strathcona.	3 jars.	90	Wagstaffe, Ltd., Hamilton.	.....	Strawberry .
" 28	" .....	52002	" "	3 " ..	75	Kootenay Col., Pres. Wks. Nelson.	.....	Raspberry, K.C. Brand
" 28	" .....	52003	Macdonalds, Ltd., Strathcona.	3 " ..	75	James Robertson & Sons, London, Eng.	.....	Raspberry, Golden Shred.
" 28	" .....	52004	J. H. Morris & Co., Edmonton.	3 " ..	75	Chivers & Sons, Histon, Eng.	.....	Strawberry .
" 28	" .....	52005	Hudson's Bay Co., Edmonton.	3 " ..	75	J. A. Sharwood & Co., Ltd., London.	.....	Black Currant, extra choice.
" 30	" .....	52006	L. T. Mewburn & Co., Ltd., Calgary.	3 " ..	Nil.	Kootenay Col., Pres. Wks. Nelson.	.....	Strawberry, K.C. Brand
" 30	" .....	52007	Campbell, Wilson & Horne, Calgary.	3 " ..	75	Wm. P. Hartley, London, Eng.	.....	Raspberry, addition of other fruit juices.
" 30	" .....	52008	" "	3 " ..	75	Holbrooks, Ltd., London, Eng.	.....	Strawberry, addition of other fruit juices.
" 30	" .....	52009	Geo. J. Wood, Calgary.	3 " ..	30	Kootenay Col., Pres. Wks. Nelson.	.....	Gooseberry, K.C. Brand
" 30	" .....	52010	" "	3 " ..	30	Wagstaffe, Ltd., Hamilton.	.....	Strawberry..

SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Solids per cent.			Water.	Polarization(Normal Solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

*Concluded.*

p. c.	p. c.	p. c.	p. c.				p. c.	p. c.				
7.50	61.00	68.50	31.50	+37.6	-19.8	57.4	43.1	17.90	None.	None.	64044	Sold as compound.
4.10	60.60	64.70	35.30	-12.7	-19.5	6.8	5.1	55.50	"	"	64045	Genuine. Imported.
5.40	65.00	70.40	29.60	+7.4	-20.2	27.6	20.8	44.20	"	"	64046	" Domestic.
											64047	" "

A.W. R. MARKLEY, INSPECTOR.

2.67	64.68	67.35	32.65	+35.6	-21.7	57.3	43.1	21.61	None.	None.	52001	Genuine. Domestic.
3.17	68.67	71.84	28.16	+16.4	-22.3	38.7	29.1	39.55	"	"	52002	" "
2.89	68.52	71.41	28.59	+11.3	-20.9	32.2	24.2	44.32	"	"	52003	" Imported.
1.79	70.25	72.04	27.96	+17.4	-22.6	49.0	30.2	40.07	"	"	52004	" "
1.90	69.62	71.52	28.48	+12.3	-22.3	34.6	26.0	43.62	"	"	52005	" "
2.32	69.17	71.49	28.51	+44.8	-21.7	66.5	50.0	19.17	"	"	52006	" Domestic.
2.79	65.69	68.49	31.52	+15.4	-20.9	36.3	27.3	38.37	"	"	52007	Sold as compound.
2.37	67.22	69.59	30.41	+34.3	-22.3	56.6	41.8	25.42	"	"	52008	" "
1.96	68.80	70.76	29.24	-6.4	-21.8	15.2	11.5	57.33	"	"	52009	Genuine. Domestic.
3.23	67.68	70.91	29.09	+25.2	-22.6	47.8	35.9	31.73	"	Pre-sent.	52010	" With colouring.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cost.	Manufacturer.	Furnisher.	

DISTRICT OF ROCKY MOUNTAINS—

1914.								
Oct. 20	Strawberry Jam.	61677	J. A. McDonald, Nelson.	3 jars.	60	Vendor .....		
" 20	Plum Jam..	61678	" " "	3 " ..	60	" .....		
" 20	Raspberry Jam.	61679	" " "	3 " ..	60	" .....		
" 20	Black Currant Jam.	61680	" " "	3 " ..	60	" .....		
" 20	Apricot Jam.	61681	" " "	3 " ..	60	" .....		
" 20	"	61682	Kootenay Col. Pres. Wks., Nelson, B.C.	3 " ..	30	Vendors.....		
" 20	Gooseberry Jam.	61683	" " "	3 " ..	30	" .....		
" 20	Raspberry Jam.	61684	" " "	3 " ..	30	" .....		
" 20	Strawberry Jam.	61685	Kootenay Columbia Pres. Wks., Nelson, B.C.	3 " ..	30	Vendors.....		
" 20	Plum Jam..	61686	" " " ..	3 " ..	60	" .....		

DISTRICT OF VANCOUVER—

Sept. 29	Fruit Jam ..	55057	Barker & Millar 2333 Main St., Vancouver.	3 jars.	75	James Robertson & Son, Paisley, Scotland.	.....	Strawberry Golden Shred Brand.
" 29	" ..	55058	S. Goranson, 328 Hastings St. East, Vancouver.	3 " ..	30	Simcoe Can. Co., .....		Plum.....
" 30	" ...	55059	M. Symons & Co., 2001 3rd Ave. W., Vancouver.	3 " ..	25	Kootenay Col. Pres. Works, Nelson.	.....	Raspberry K.C.Brand.
" 30	" ...	55060	B. E. Hobson, cor. 4th Ave. and Yew St., Vancouver.	3 " ..	75	E. D. Smith, Winona.	.....	Black Currant.
" 30	" ...	55061	Beeton & Dickson 2200 Vine St., Vancouver.	3 " ..	1 05	F. Duerr & Sons Manchester, Eng.	.....	Greengage..
" 30	" ...	55062	Morrow & Dean, 2200 7th Ave. West, Vancouver.	3 " ..	75	Empress Mfg. Co. Vancouver.	.....	Raspberry Empress Brand.
Oct. 5	" ...	55063	B. C. Market Co., 1136 Commercial Drive, Vancouver.	3 " ..	75	L. Noel & Sons, Ltd., London, Eng.	.....	Strawberry .



SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Solids, per cent.			Water.	Polarization (Normal solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

THOMAS PARKER, INSPECTOR.

p. c.	p. c.	p. c.	p. c.				p. c.	p. c.					
4.07	69.75	73.82	26.18	+19.7	-23.4	43.1	32.4	37.37	None.	None.	61677	Genuine.	Domestic.
7.23	63.70	70.93	29.07	- 2.0	-20.0	18.0	12.8	50.85	"	"	61678	"	"
6.46	64.83	71.29	28.71	+25.4	-22.0	47.4	35.6	29.23	"	"	61679	"	"
2.43	66.60	69.03	30.97	+ 6.6	-19.5	26.1	19.3	47.30	"	"	61680	"	"
1.87	64.57	66.44	33.56	+39.3	-21.4	60.7	45.6	18.99	"	"	61681	"	"
1.86	60.32	62.18	37.82	+42.5	-20.0	62.5	46.6	13.67	"	"	61682	"	"
2.89	62.16	65.05	34.95	+29.9	-21.7	42.6	32.0	33.00	"	"	61683	"	"
5.02	64.82	69.84	30.16	+25.3	-21.2	46.5	34.9	34.89	"	"	61684	"	"
2.26	69.15	71.41	28.59	+43.6	-18.9	62.5	47.0	24.41	None.	"	61685	"	"
0.88	67.74	68.62	31.38	+25.4	-22.3	47.7	35.8	31.94	"	"	61686	"	"

E. J. MORGAN, INSPECTOR.

1.78	68.80	70.58	24.42	+16.3	-22.9	39.2	29.7	39.10	None.	None.	55057	Genuine.	Imported.
8.70	65.90	74.60	25.40	- 3.4	-18.7	15.3	11.5	54.40	"	"	55058	"	Domestic.
6.29	60.71	67.00	33.00	+19.9	-19.8	39.7	29.6	31.11	"	"	55059	"	"
5.50	59.10	64.60	35.40	- 8.9	-18.9	10.0	7.5	51.60	"	"	55060	"	"
1.00	63.30	64.30	35.70	+13.3	-20.2	33.5	25.2	38.10	"	"	55061	"	Imported.
5.10	59.70	64.80	35.20	+ 7.9	-16.7	24.6	18.5	41.20	"	"	55062	"	Domestic.
1.84	66.45	68.29	31.71	+36.3	-22.3	58.6	43.7	22.70	"	"	55063	"	Imported.

6 GEORGE V, A. 1916

BULLETIN No. 309—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF VANCOUVER—

1914.								
Oct.	7	Fruit Jam..	55064	Annandale Supply Co., 641 Columbia St., New Westminster.	3 jars.	75	Chivers & Sons, Ltd., Cambridge Eng.	Raspberry and Currant improved with small proportion of Fruit Jelly.
	7	" ...	55065	C. A. Welsh, Ltd., 681 Columbia St., New Westminster.	3 " ..	45	Can. Cannery, Ltd., Hamilton.	Red Currant Compound.
	9	" ...	55066	David Spencer, Ltd., Vancouver, B.C.	3 " ..	75	Tickler's, Lincolnshire, Eng.	Red Seal Brand. Gooseberry..

## DISTRICT OF VICTORIA—

Sept.	22	Strawberry Jam.	61968	The Windsor Grocery Co., 817 Govt. St., Victoria.	3 jars.	75	Empress Mfg. Co. Vancouver.	Empress Brand.
"	22	" ...	61969	" " ...	3 " ..	75	Wagstaffe, Ltd., Hamilton.	
"	23	Jam (Plum).	61975	E. B. Jones, 1802 Govt. St., Victoria.	3 tins.	45	W. D. Peacock & Co., Ltd., Hobart, Tasmania.	
"	24	Raspberry Jam.	61980	The West End Grocery Co., 1602 Govt. St., Victoria.	3 jars.	75	James Keiller & Sons, Dundee, Scotland.	
"	25	Jam (Apricot).	61983	Acton Bros., 1317 Douglas St., Victoria.	3 " ..	75	L. Noel & Sons, London, Eng.	
Oct.	3	" (Raspberry).	61988	Dixie H. Ross & Co., 1317 Govt. St., Victoria.	3 " ..	45	G. & E. Norton, London, Eng.	
"	3	" (Apricot).	61992	Copas & Young, 631 Fort St., Victoria.	3 " ..	75	Chivers & Sons, Cambridge, Eng.	
"	3	" (Red Gooseberry)	61993	" " ...	3 " ..	60	Wm. P. Hartley Liverpool, Eng.	
"	5	" (Green-gage).	61994	H. W. Driver, 856 Yates St. Victoria.	3 " ..	75	Empress Mfg. Co. Vancouver.	Empress Brand.
"	9	" (Black Currant).	61995	Dixie H. Ross, 1317 Govt. St. Victoria.	3 " ..	75	Tickler's, London Eng.	

## SESSIONAL PAPER No. 14

## JAMS AND COMPOUND JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Solids per cent.			Water.	Polarization (Normal Solution).			Residual Cane Sugar.	Soluble Matter other than Cane Sugar.	Preservatives.	Dyes.		
Insoluble.	Soluble.	Total.		Direct.	Invert.	Difference.						

*Continued.*

p. c.	p. c.	p. c.	p. c.									
4.57	70.10	74.67	25.33	-13.5	-19.8	6.3	4.7	65.40	None.	None.	55064	Sold as compound.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55065	" "
2.90	63.60	66.50	33.50	- 6.6	-20.2	13.6	10.2	53.40	"	"	55066	Genuine. Imported.

## D. O'SULLIVAN, INSPECTOR.

3.04	64.60	67.64	32.36	+29.8	-21.0	50.8	37.9	26.70	None.	None.	61968	Genuine. Domestic.
5.96	62.37	68.33	31.67	+24.2	-19.0	43.2	32.3	30.07	"	"	61969	" "
4.00	67.90	71.90	28.10	-10.9	-20.1	9.2	6.9	61.00	"	"	61975	" Imported.
3.40	67.51	70.91	29.09	- 2.7	-22.0	19.3	14.6	52.89	"	"	61980	" "
2.60	61.40	64.00	36.00	+17.2	-19.5	36.7	27.3	34.10	"	"	61983	" "
3.60	69.50	73.10	26.90	+11.7	-22.3	34.0	25.6	43.90	"	Pre-sent.	61985	Genuine with added colour.
7.10	60.90	68.00	32.00	+ 9.9	-18.3	28.2	21.2	39.70	"	None.	61992	Genuine. Imported.
4.60	66.20	70.80	29.20	- 1.4	-21.6	20.2	15.2	51.00	"	"	61993	" "
6.40	55.50	61.90	38.10	- 9.2	-15.6	6.4	4.8	50.70	"	"	61994	" Domestic.
3.90	67.80	71.70	28.30	+12.2	- 9.0	21.2	15.9	51.90	Salicyclic acid.	"	61995	Genuine with added preservative.









